

**INSTALLATION / WARRANTY INSTRUCTIONS**

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**Vandalux, Vandaguard & Vandalume (UK only)**

**PLEASE READ THESE INSTALLATION INSTRUCTIONS CAREFULLY BEFORE INSTALLING OR MAINTAINING THIS EQUIPMENT. THE PRODUCT IS DESIGNED FOR INSTALLATION AND MAINTENANCE IN ACCORDANCE WITH RELEVANT AUSTRALIAN STANDARDS (AS/NZ3000), THESE INSTRUCTIONS AND LOCAL REGULATIONS (WHERE APPLICABLE), BY AN AUTHORISED AND LICENCED ELECTRICIAN.**

THE INSTALLATION INSTRUCTIONS WERE CORRECT AT THE TIME OF PRINT. TO REFLECT CHANGES IN TECHNOLOGY AND AUSTRALIAN STANDARDS; PIERLITE AUSTRALIA RESERVES THE RIGHT TO AMEND THE INSTRUCTIONS WITHOUT NOTICE. UPDATED GUIDELINES CAN BE FOUND ON [www.pierlite.com](http://www.pierlite.com).

**IMPORTANT** - THE PRODUCT MUST BE MAINTAINED AND OPERATED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS, FAILURE TO DO SO MAY DAMAGE THE PRODUCT AND SERVICES. IT IS STRONGLY RECOMMENDED THAT THIS IMPORTANT NOTE BE COMMUNICATED TO THE OWNER AND OR OPERATOR OF THE INSTALLATION AT THE TIME OF SITE COMMISSIONING. PIERLITE AUSTRALIA IS NOT RESPONSIBLE FOR ANY PRODUCT NOT MAINTAINED IN ACCORDANCE WITH THE RECOMMENDED PROCEDURES.



For the latest product online reference data, simply install and activate a QR code scanner application on your smartphone. For more information visit [www.pierlite.com](http://www.pierlite.com)

**1. PRODUCT SPECIFICATION:**

Type of Protection	Class I
IP Rating	IP66
Nominal Voltage	230-240V
Nominal Freq. (Hz)	50 Hz
Rated Maximum Temperature tw (Winding)	130°C
Rated Maximum Temperature Capacitor	85°C
Rated Maximum Ambient Temperature	40°C (higher temperatures available on request)

**2. APPROVALS:**

N204

The RCM marking of this product applies to AS/NZS CISPR15:2006 "Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment". This product is designed to conform to AS/NZS60598 "Luminaires, general requirements and tests".

**3. STORAGE:** Prior to installation products are to be stored in cool and dry conditions.

**4. APPLICATION:**

Virtually indestructible vandal resistant luminaires with die-cast aluminium body and polycarbonate diffuser. Ideal for industrial, corrosion prone, and commercial areas. Acrylic diffusers are also available where desired.

The installation application and orientation of the product is designed in accordance with the nominated product IP rating, class designation and these installation installations. Installation environments outside these conditions are not recommended.

## 5.0 Installation and Safety

This product when operated under normal use shall provide years of service with minimal or no maintenance needed. However, care is expected in installing this product.

All requirements of "Health and Safety" shall be met.

The luminaires are Class 1 and should be effectively earthed.

Certification details on the rating plate must be verified against the application requirements before installation.

The information in this leaflet is correct at the time of publication. The company reserves the right to make specification changes as required.

### 5.1 Tool requirements

Installation tools include 3mm and 5mm flat blade screwdriver, pliers, 5mm Hex Key, knife and wire strippers or cutters.

For high security fittings only, special tools may be required for complete installation.

### 5.2 Electrical Supplies

Always ensure the correct supply voltage is as the rating label on the product. Slight variations of the nominal line voltage within the range of +6%/-6% are expected, although luminaires should not be operated continuously at more than +6%/-10% of the rated supply voltage of the control gear or tapping.

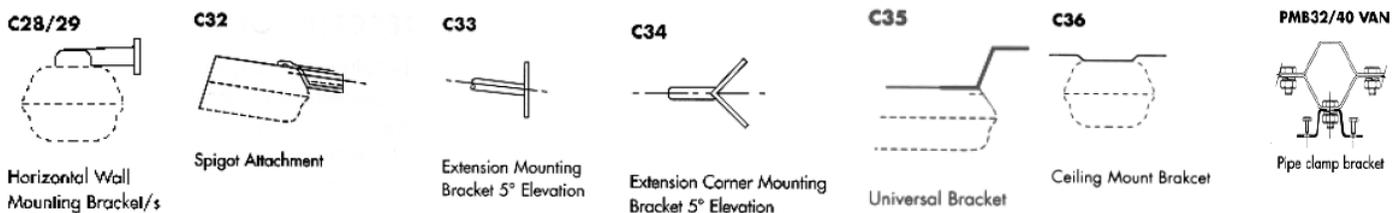
### 5.3 Lamps

All lamps used are of a standardised type, as stated on the lamp replacement label. This label is located so as upon replacing the lamp the label is clearly visible. Do not replace lamps with different wattages or types other than indicated on the lamp replacement label. There are no preferences between make and colour, unless specified on the lamp replacement rating.

Care must be taken to fit the correct replacement lamp in order to preserve the certification conditions and obtain the designed photometric performance. Lamps should be replaced shortly after they do not light.

### 5.4 Mounting

Luminaires should be installed where access for maintenance is practical and in accordance with any lighting design information provided for the installation. The following mountings are possible.



C32 mount can only be fitted to 18w fittings.

**For direct surface installation use only authorised mounting bosses provided!**

### 5.5 Cabling and Fitting Lamps

Access for cabling and fitting lamps is done by firstly removing the front cover, after which the gear tray is removed. Install the conductors into the appropriate terminals. Do not strip the insulator excessively, 1mm bare conductor outside the terminal is a maximum. Any unused terminal should be fully tightened.

V90 HT cable should be used. Ensure that the supply cable does not touch magnetic ballasts. It is recommended that a high temperature sleeving is fitted over supply cable that runs past magnetic ballasts.

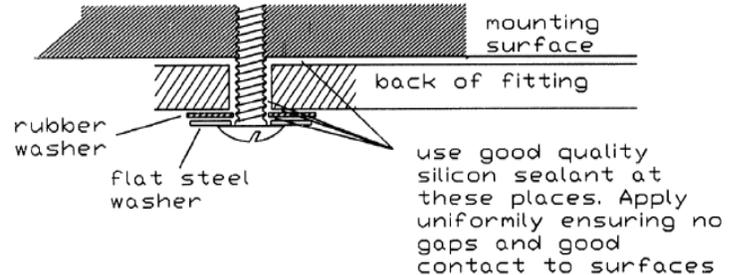
After cabling is complete make a final tightness and connection check. Lamps must be of the correct type as specified by the lamp replacement label and must be properly inserted and locked. The gear tray is then locked after which the diffuser is applied and tightened with the appropriate tool.

**"Do not overtighten diffuser fixing screws or damage may occur – recommended torque setting of 4 Nm"**

### 5.6 Sealing

The sketch below shows how to ensure a lasting seal with a good quality silicone sealant. Always use a sealant that remains flexible. Apply enough sealant so that the material oozes out completely around the rubber washer when the bolt or screw is tightened.

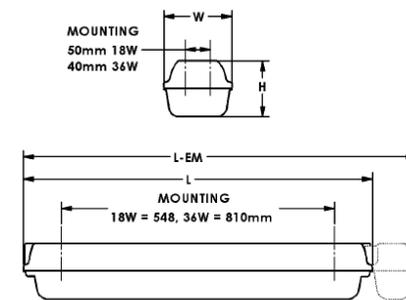
Always use a gland or a screwed conduit adapter, suitable types are available from Clipsal. With conduit ensure that the other end of the conduit is not left open. Even if it is inside the building it allows water vapour and insects to enter the fitting. A rubber washer and silicone sealant should also be used between the fitting body and the conduit nut inside the fitting. Use PVC cement to seal all conduit joints. Glands are intended for round cable and will not seal against TPS. Even when properly installed using round cable, sealant may be necessary in extreme weather exposure.



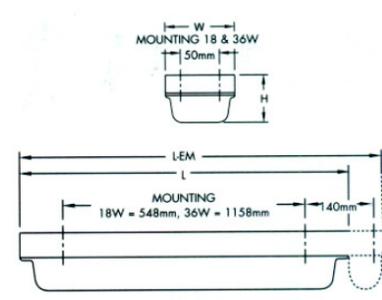
### 5.7 Dimensions

	W	H	L	L-EM
18W Vandalux	138	114	670	787
36W Vandalux	138	114	1310	N/A
18W Vandaguard	137	85	698	787
36W Vandaguard	137	85	1308	1397

NOTE: No Battery Box required for 36W Vandalux Emergency (Internal Battery). Dimensions in millimetres



Vandalume (UK only) & Vandalux Dimensions



Vandaguard Dimensions

### 5.8 Cabling

All cabling must meet the current requirements for the installation. The current requirements for individual fittings are shown at the bottom of this document.

### 5.9 Inspection and Maintenance

Visual inspection should be carried out at a minimum of 12 monthly intervals and more frequently if conditions are severe. Due careful selection of control gear and parts, the time between lamp changes could be very infrequent which can be too long a period without an inspection.

If the diffuser needs cleaning, use a damp cloth to wipe the diffuser. Using certain cleaning agents on the diffuser can cause detrimental effects to certain types of diffuser. Please contact your supplier if you are unsure of the suitability of the diffuser to the surroundings. Pierlite stock acrylic and polycarbonate diffusers both that are vandal proof for different application and environmental requirements.

### 6.0 Routine Examination

The equipment must be de-energised before opening to avoid shock.

Following the application of EN 60079-17 the following guidelines may be able to help.

- 1) Ensure the lamp is lit when energised and that the lamp glass is not damaged.
- 2) When de-energised and left to cool there should be no sign of internal moisture. If there are signs of water ingress, the luminaire should be opened up, dried out, and any likely ingress points eliminated by installing a new gasket.
- 3) Check the cable gland for tightness and tighten if necessary.
- 4) Check the tightness of the diffuser screws and tighten if necessary
- 5) Clean the lamp glass.
- 6) Upon changing lamps check that the diffuser gasket has not softened or become excessively deformed, if in doubt replace.

### 6.1 Electrical Fault finding and Replacement

The supply must be isolated before opening the luminaire.

In most instances any electrical faults are simple, namely loose or broken connections, unserviceable lamps or open circuit control gear. Control gear will not go open circuit in most instances unless it has been overheated. Overheated control gear can be easily found from severe discolouration of the paint on the gear and cracks in any exposed insulation. It is unusual for a control gear to overheat, so please ensure that all connections are made correctly. If all connections are verified to be correct, the products environment may be having an adverse effect to the components. If this is the case please contact your supplier for a more suitable replacement.

Any fault finding must be done by a fully qualified electrician and, if carried out with the luminaire in place, under a permit to work. With replacement of any part ensure that wires and connections are checked, and any wire sleeving refitted.

### 7.0 Fuse Ratings

Fuses can be fitted to all Pierlite products on request. Switchboard fuse ratings must take into account inrush currents to PFC capacitors which can be greater than 10 times the nominal current, lamp starting current and cathode heating, all which occur within the first few seconds of turn on. Pierlite can advise of acceptable fuse ratings for special and multi-configuration luminaires.

Rating	Code Ballast		Low Loss Ballast		Electronic Ballast		Weight (kg)
	Nominal Current	Power Factor	Nominal Current	Power Factor	Nominal Current	Power Factor	
1x18	130 mA	0.9	147 mA	0.9	90 mA	0.95	3.4
2x18	211 mA	0.9	192 mA	0.9	170 mA	0.99	3.4
1x36	211 mA	0.9	192 mA	0.9	160 mA	0.97	5.7
2x36	422 mA	0.9	384 mA	0.9	290 mA	0.99	6.3

\*Values Subject to change at anytime.

**8. WARRANTY:** Product warranty is in accordance with Pierlite Australia’s standard terms and conditions of sales, unless specifically stated otherwise in this document. For the latest terms and conditions of sale please see [www.pierlite.com](http://www.pierlite.com).