

Equipment for Lattix Mast



Typical Illuminated Sign on Lattix Mast



Poletech Passively-Safe Foundation/
Electrical Arrangement for Lattix columns

Lattix posts – saving lives at the roadside

The European Road Assessment Programme (EuroRAP) has found that more than 60 per cent of road deaths in the UK occur on roads outside built-up areas, particularly on single-carriage roads.

Last year, 300 people in the UK were killed or seriously injured in collisions with road traffic sign and traffic signal posts. The rigidity of most roadside traffic sign and traffic signal posts means that even a EuroNCAP 5-star car cannot protect its occupants adequately.

Lattix posts are designed to be forgiving when struck by vehicles at speeds in excess of 50 mph. Crash tests and real life crash incidents have demonstrated that in a collision, even at high speed, damage to the vehicle is minimal, and injuries to occupants much less severe.

Lattix posts have been developed by Juralco, a Norwegian company, and its award is shared with SignPost Solutions, the UK supplier that has researched and developed their use in the UK.

Lattix posts have proved highly successful in Scandinavia, and more recently have been crash tested by the Highways Agency and found to fully conform with British and European standards. They have been installed at more than 300 locations in the UK and Ireland

Poletech Systems has designed a Highways Approved electrical Break-Away system, **PolePlug** to combine with the Lattix foundation.

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Required Products for Lattix Mast Signpost for Overhead Lighting Unit:

Poletech Access chamber pit made from 8mm HDPE creased and welded with securing fins and welded floor. Internal clear opening size 300x300x570mm deep with two rows of preformed cut-outs for quick connection for ducting at 330mm and 470mm duct cover. Chamber complete with internal guides designed to accept drawboard panel for moulded enclosure and electrical switchgear.

Product Reference Code ACP300300570PPG

High density polyethylene draw board designed to accept electrical switchgear for access chamber (ACP300300470), panel size 300mm wide x 450mm deep x 8mm thick:

Product Reference Code HDPEPANEL3004508

Composite polyester cover and galvanized 'tilt & lift' steel frame to specification BS EN 124 B125 to cover 300 x 300 MAC Modular Access Chamber, badged 'Street Lighting' with anti slip tread pattern designed to conform to the U.K. County Surveyors Society Working Party Data Collection Unit 1996. Skid resistance value (SRV) 87 (dry test) 76 (wet test) and an equilibrium value for wet testing of 64. Anti slip design exceeds minimum SRV values.

Product Reference Code ASPLID300300B125GFST

Glass reinforced polycarbonate moulded enclosure with clear cover, protection to IP67 – BSEN60529 with an operating temperature range of -50°C to +30°C with neoprene gasket seal cover. Enclosure comes with a clear polycarbonate lid and two gland plates, one on each side, which fit pre-pressed openings, size 140.5x49mm. Enclosure sized 280 x 190 x 130mm deep. Body finish grey RAL 7035.

Product Reference Code: MOULDENCLOSE280X190CL

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VDE approved compression type polyamide cable gland (nylon dome top) for cable diameter 13 - 18mm, designed to IP68 with metric thread and locking nut.

Product Reference Code: CABLEGLAND13/18M25. (Gland for cable exit)

VDE approved compression type polyamide cable gland (nylon dome top) for cable diameter 17 - 25mm, designed to IP68 with metric thread and locking nut.

Product Reference Code: CABLEGLAND17/25M32. (Gland for cable entry)

Long radius 90° Duct Bend to suit 60mm o/d duct:

Product Reference Code: DUCTBEND6090

Poletech **PolePlug Breakaway Cable System**. These quick disconnectors are 3 pin, 15 Amp IP68 polarized plug, connectors and receptacle, type: 15PPM-3 (male plug) and type: 15PPF-3 (female receptacle). The electrical connectors are designed to accept 3 core cable, size 10 Awg. (2.588 mm_) supplied as factory moulded cable and connector joint to provide a dust and waterproof joint, submersible to 6 feet of water when capped or mated.

The type: 15PPM-3 plug is supplied with 6.0 metres of 3 core cable with cable tie for fixing to Lattix lighting spigot at top of mast and type 15PPF-3 receptacle is supplied with 2.0 metres of 3 core cable with cable tie for fixing cable above duct entry within the access chamber pit. The POLEPLUG has a maximum, rating of 15 Amp, 600 volts and has a crush-proof rubber body.

Product Reference Code: **POLEPLUG153BLK2/6M**

Installation Procedure for Lattix Mast Signpost for Overhead Lighting Unit

Installation 1



Feed the cable up through the duct bend from within the cable access box until it comes up out of the foundation.

Installation 2

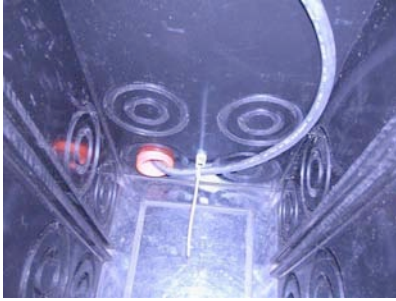


Put the cable into the cable cladding located on the inside of the Lattix and feed up to the top of the Lattix mast until it comes out of the cable cladding. Keep pulling the cable through the cladding until the POLEPLUG appears between the foundation duct and Lattix cable cladding. The POLEPLUG joint between male and female electrical connector should be above the base plate of the LATTIX mast as shown on our drawing No. DAT-ACP-LATTIX Rev C.

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Installation 3



Secure the cable tie within the cable access pit located above the duct making sure there is no loose surplus cable between **PolePlug** and cable tie.

Installation 4



Secure the cable tie to the underside of the LATTIX mast spigot and secure the cable, making sure there is no loose surplus cable between **PolePlug** and cable tie.

