Applications: Footways, Cycle Routes, Car Parks, Architectural, Town Centres

The innovative X-Last bollard range is available in a unique illuminated format unlike any other. Bollards are manufactured in a translucent polymer which allows the light source to radiate through segments or the entire bollard. The material is available in five colours – white, yellow, red, blue, and green. An LED light source is housed in a waterproof enclosure slightly beneath surface level within the socket. This ensures damage cannot occur to the bollard on vehicular impact.

The illuminated X-Last bollards can withstand multiple impacts without loss of strength or replacement. The Retention Socket allows the bollard to be de-mounted within minutes if required for access or events. The light source can be supplied in various types to suit customer specific requirements. They are supplied with waterproof plug and play connections. Light sources can be supplied with photocell systems to ensure there is no power wastage through day burning.

Advantages

- Uniform light source throughout entire bollard
- Wide range of waterproof LED and ELV light source options
- Photocell ensures no power wastage
- Withstands over 1000 impacts
- ENI 2767 NE4 Passively safe approved
- Plug and play installation and removal
- Retention Socket allows simple and fast installation/removal
- Simple bolt down or core drill installation
- Fits in Retention Socket enabling fast installation and removal
Generic X-Last bollard specification

Bollards must be manufactured from Elastomeric Polymer with the base colour impregnated within the polymer material. Top colours will be painted using elastic coatings.

Bollards must be UV, abrasion, moisture and weather resistant.

Bollards must be passively safe to EN12767 - Classification NE4.

Bollards must be HIC Tested with a maximum value of 600.

Bollards must withstand a min of 320kgs force before folding to 90 degrees of their upright position.

Bollards must be able to withstand multiple impacts without any loss of strength.

Bollards must have the ability to perform as above with temperatures ranges from -20 to 60 degrees Celsius.

All reflective banding must be to EN12899-1 Class Ra2.

Bollards root must be a maximum of 190mm in depth.

Bollards must be supplied with cast in, bolt down or NAL retention socket installation options.

All Bollards must be provided to the above specification by NAL Ltd or an equally approved manufacturer.

Retention Socket Specification

Retention Sockets must be constructed from cast steel to GS240 or ductile iron to BS2789 500-7.

Retention Sockets must be capable of withstanding high speed vehicle impact forces.

All sockets must be impact tested by an independent certified test centre and must be impact tested with a min 6mm steel post at 50kph. Test data and independent certification must be available to substantiate claims for sockets and foundations.

All fixings which secure posts in place must be housed below ground ensuring no risk of damage, vandalism or theft.

Retention Socket Pedestrian Plugs must be tested to EN124 - B125 (12.5 tonne) loading.

All Retention Sockets must be provided to the above specification by NAL Ltd, or an equally approved manufacturer.

Light Source Specification

Light system: 6 LED’s - (6, 12 or 18w)

Colour: White 5000K

Luminous Flux: 700Lm, 1400Lm & 1900Lm

Input Voltage: 17V

Control Signal: Not as standard (Optional 0-10v analogue or DALI)

Power Factor: >0.9

Chassis & Lens material: Aluminium & Glass

Beam width: 64°

Working temp: -40 degrees to 50 degrees C

Lifetime: >50,000hrs


Power Lead connection: Via male & female M8 IP67 plug & socket (with screw terminals).

UMSUG Code: Available.