



Bollards

X-Last Illuminate



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
- ◇ EN12767 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



A CRH COMPANY

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.

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

IP Rating: Ip67.

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

UMSUG Code: Available.



T: **+44 (0)1905 427100**
F: **+44 (0)1905 427030**
E: **sales@nal.ltd.uk**
W: **www.nal.ltd.uk**

NAL Ltd
Weir Lane
Worcester
WR2 4AY

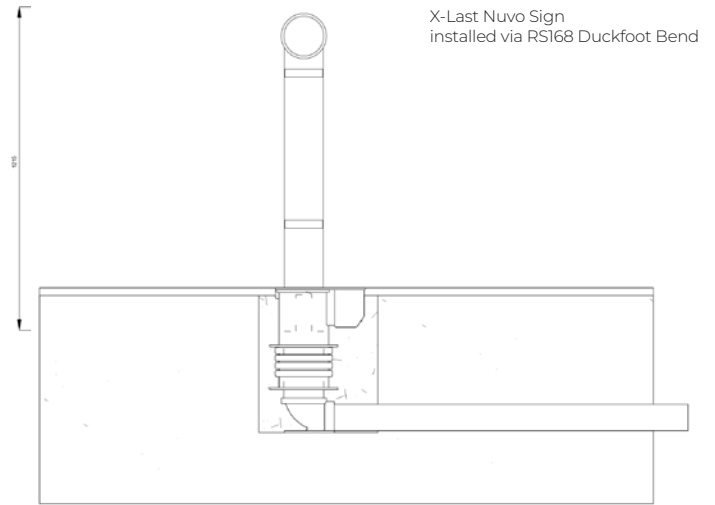
Installation options available:

RS168 retention socket

Foundation size:

Solid ground - 450x450x550mm deep

Loose ground - 600x600x550mm deep

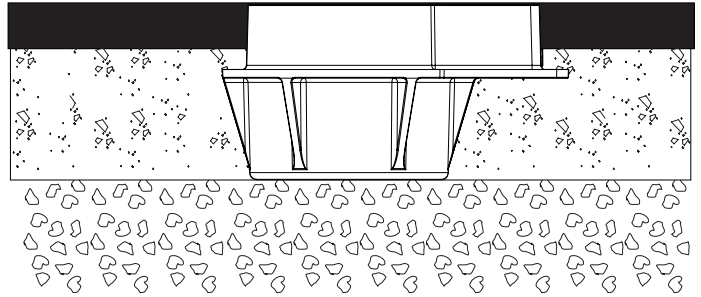


NAL composite socket

Foundation size:

Solid ground - 450 x 450 x 200mm deep

Loose ground - 600 x 600 x 400mm deep



X-Last illumination unit

Light system – 3 LED's 3w

Colour - white 6500K

Luminous flux - 467lm

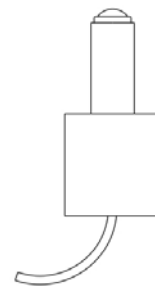
Glass type - tri-lense

Beam width - 6 degrees

Body - chrome brass

Electrical connection - 230 V AC 50/60 Hz with standard connector

Working temperature - 35 degrees to 60 degrees C



A CRH COMPANY

T: +44 (0)1905 427100
F: +44 (0)1905 427030
E: sales@nal.ltd.uk
W: www.nal.ltd.uk

NAL Ltd
Weir Lane
Worcester
WR2 4AY