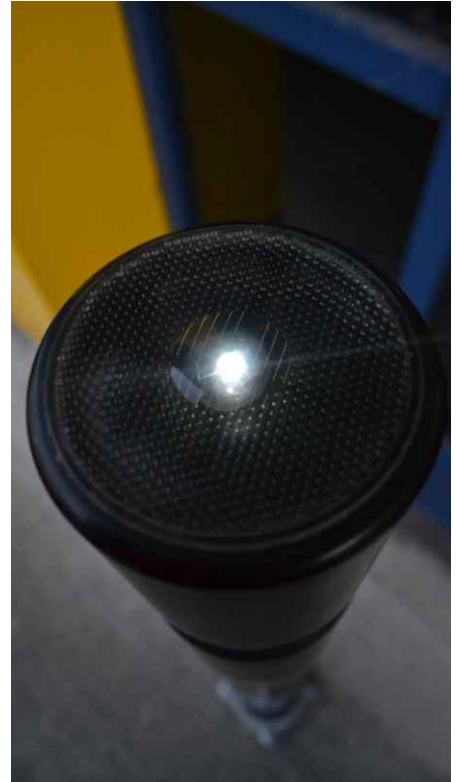




# Bollards

## X-Last Solar Light



**Applications:** Cycle Routes, Footpaths, Roadside, Car Parks

NAL X-Last bollards are an innovative range of bollards with unique properties which make them both highly resistant yet flexible on impact. X-Last bollards can withstand multiple impacts without loss of strength or replacement required. This makes them one of the safest, most durable and maintenance free bollards available on the market. The range is available with a solar light which is secured into the top section of the bollards. This system is ideal for locations which do not have a power source available. The LED solar light is available in a range of colours with a constant or flashing option. X-Last bollards can be supplied in various installation options – cast in, bolt down or with a retention socket for de-mountable installations.

### Advantages

- ◆ Highly rigid and flexible
- ◆ Non corrosive material and UV stabilised
- ◆ Withstands impact loads between 200Kg-490Kgs
- ◆ HIC and chest simulation tested for cycle and pedestrian safety
- ◆ Passively safe tested to NE4
- ◆ Simple installation - 200mm root
- ◆ No power source required
- ◆ Highly visible solar light
- ◆ 8 year Lithium battery life
- ◆ 200hrs+ working time from fully charged unit
- ◆ LED option for conservation and bat sensitive areas





### Generic X-Last bollard with Solar Light specification

Bollards must be manufactured from Elastomeric Polymer with the base colour impregnated within the polymer material. Top colours to 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 250kgs 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 temperature ranges from -20 to +60 degrees celsius.

All reflective banding must be to EN12899-I Class RA2.

Bollard 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.



### Solar Light source Specification

Material: High impact durable engineering grade polymer

Light system: Single LED – 100,000 hours

Colour options: White, Red, Yellow, Green

Light option: Steady or flashing

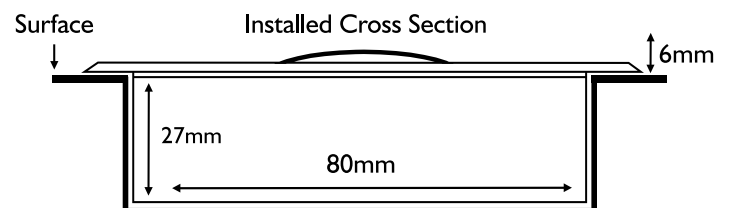
Battery: Long Life Lithium (8yrs+)

Working time: 200hrs on full charge - steady / 400hrs on full charge - flashing

Working temperature: -20 degrees C to +70 degrees C

IP Rating: IP68

Conservation: Bat friendly LED option



### X-Last range compatible with Solar Light unit



Baliza D80



Baliza D150



Gorge D80



Gorge D100



LookArt Diaomind



Kreta