

# Night owl

## The complete solution

Night Owl is an all new, low energy absorption, highway sign solution from LEAFIELD that provides an attractive, logical evolution in the iconic design of Keep Left Bollards.

The system comprises two components, an universal 'Bounce Back' Base unit designed to self right the sign after impact and the Night Owl sign and graphics (conspicuity panels) designed to provide high visibility and durability.

✓ **BS 8442:2006 (14) for Retro Reflective Self Righting Bollards**

✓ **BS 12767 Passive Safety of Non Harmful Structures (70,NE,4)**

✓ **BS EN 12899-2:2006 5.6.4 Torsion Test.**

See the product testing video at [www.leafieldhighway.com](http://www.leafieldhighway.com)

### Features and Benefits

Unique 'dome' shaped Base gives reliable bounce back performance irrespective of the type of impact (side scrape, side swipe or front on) or angle.

Base made from tough 'Reflex' material capable of withstanding impacts up to 70km/h.

Adapter plate available to allow the Base to be fixed to many existing mountings.

The moulded-in screw thread on the top of the Base means that no mechanical components are used on the sign.

Fluorescent, prismatic, retro reflective material used as standard for high visibility.

The Sign carrier can be easily removed and replaced in under a minute reducing danger to Highway Contractors and inconvenience to road users.

The strong rigid construction of the sign withstands damage from the 'trampling' action of wheels running over the top of the sign.

Retro Reflective panel on the Sign edge provides best in class visibility.

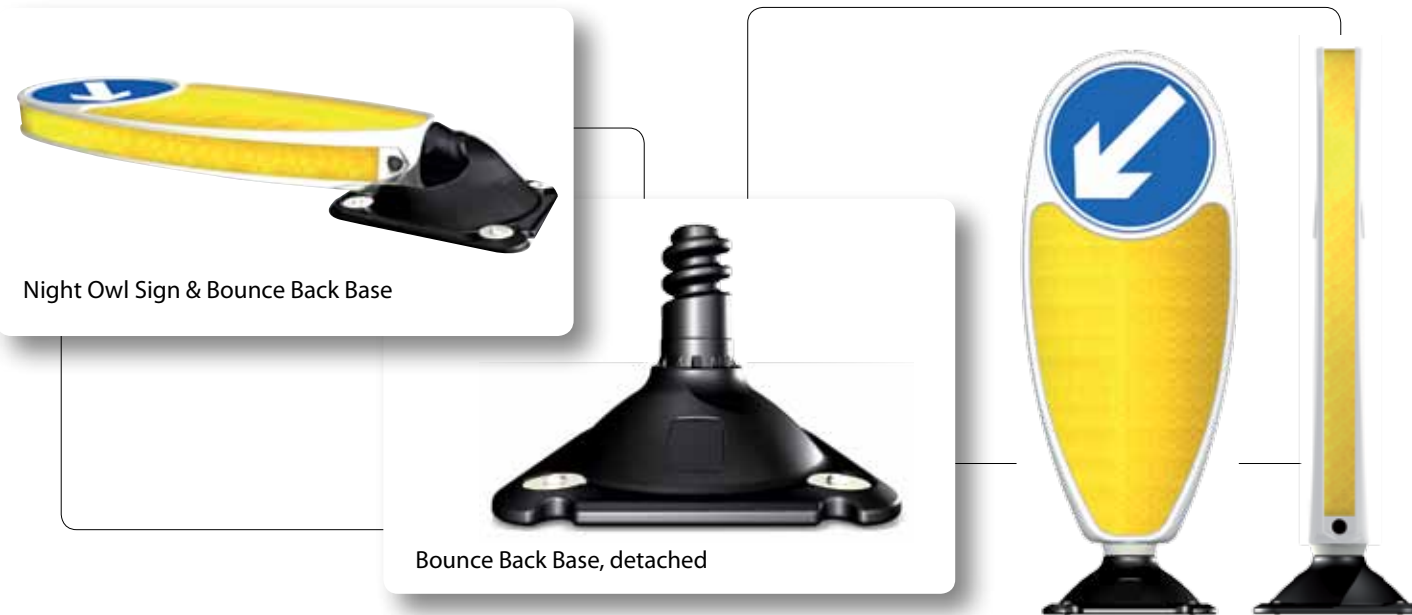
The Sign section can be moulded in most colours including stone effect/mottle finishes for environmentally sensitive areas.

A wide range of alternative signage can be fixed to the same base unit providing a consistent and coherent streetscape.

Recyclable material used throughout, suitable for environmental re-use.

### Passively Safe

BS 12767 Passive Safety of Non Harmful Structures measures the degree to which the vehicle is slowed as a result of the impact with the bollard. A speed reduction below 3km/h is required and Night Owl achieves 2.6km/h which means that on impact occupants do not experience sudden vehicle deceleration, a common cause of 'whiplash' type injuries. Night Owl achieves the highest rating of NE, 4 at 70km/h.



### Technical & Dimensions

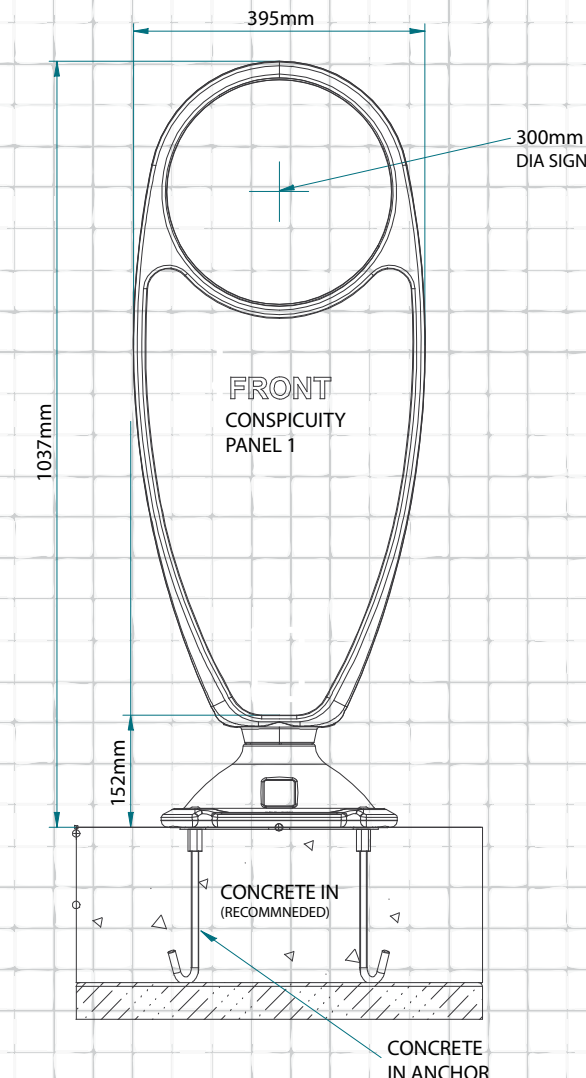
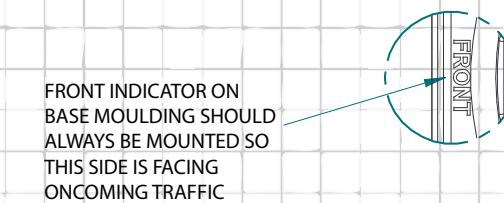
#### Projected Surface Areas

Front & back, conspicuity panel reflector areas: 0.16m<sup>2</sup> (BS\* requires 0.15m<sup>2</sup> min)  
Side reflector area: 0.045m<sup>2</sup> per side (BS\* requires a minimum of 0.02)  
\* BS 8442:2006

#### Performance

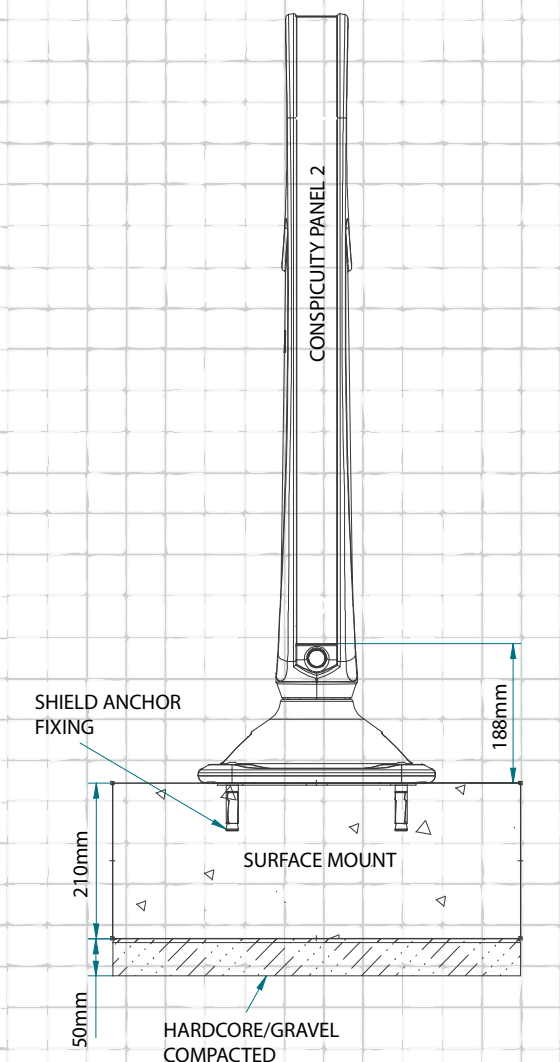
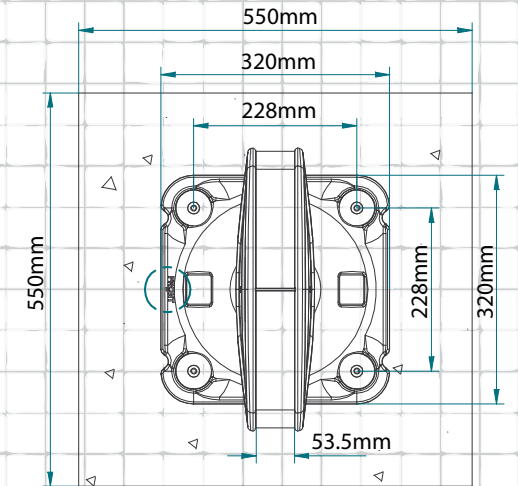
- Passes the High Impact Resistance test at 70 km/h. Returns to 98% of its original high in 1.8 seconds.
- Vehicle speed reduced by 2.6km/h (standard is less than 3km/h) giving the highest passive rating for vehicle occupants (NE,4).
- No material lost on impact, standard allows 25gms.
- Sign can be removed and replaced in under 1 minute.

Dimensions: See below



### Visibility

- Fluorescent, prismatic, retro- reflective material used as standard
- Large 0.16m<sup>2</sup> (Projected Surface Area) front and back conspicuity panel.
- Best in class standard, side visibility with 53mm wide side and top reflector and a total projected surface area of 0.045m<sup>2</sup>.
- All reflectors are recessed to help reduce the effect of damage on vehicle impact.



### USES

Night Owl has particular application as a Keep Left Bollard providing a reduced carbon footprint solution for traffic islands in general. Correctly installed the product complies with BS 8442:2006 Retro-reflective Self Righting Bollards.



Available from - Merlin Industrial Products Ltd - 0800 0418 650 - [info@merlin-industrial.co.uk](mailto:info@merlin-industrial.co.uk)



## SIGN OPTIONS

### COLOURS

Night Owl Sign carrier is available in all of Leaffield's standard colour range. (see right)



#### LEAFIELD COLOURS

Black PMS BLACK	Chrys PMS BLACK 7	Admiralty Grey PMS 423	Kwikore Grey PMS 423	Grey White PMS VC011	Bluebell White
Dark Azule PMS 327	BSI Green PMS 347	Riding Green PMS 300	Heritage Green PMS 300	Signal Red PMS 485	Burgundy PMS 511
Golden Yellow PMS 116	Puller Orange PMS 165	Root Blue PMS 3005	Ultramarine Blue PMS 288	Turquoise Blue PMS 255	Classic Navy PMS 333
Special Colours					
Sandstone Matte	Stone Wattle Grey	Monte Eco 20% recycled	Black Eco 20% recycled	Hippo Pink PMS 212	Hest Blue PMS 310

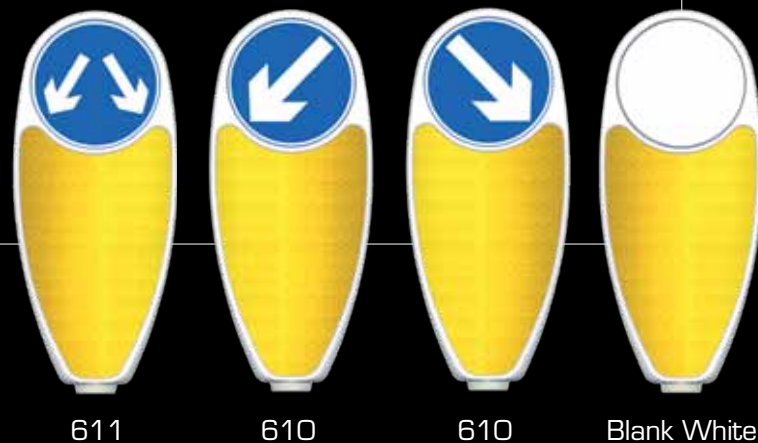
### GRAPHIC FORMATS

**Single Sided only** (Front and side Conspicuity Panels, & 300mm sign)

**Double Sided (Single Sign)** (Front, back and side Conspicuity Panels & 300mm sign)

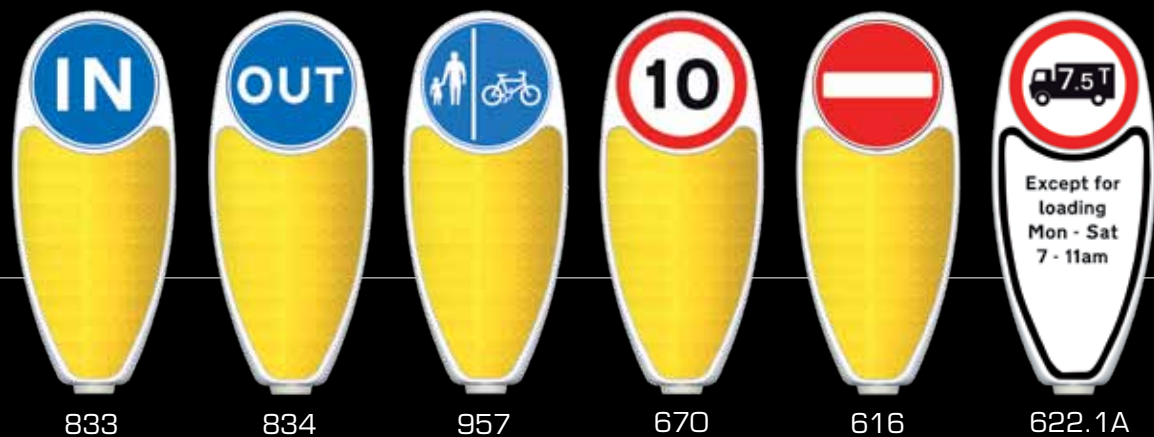
**Double Sided (Double Sign)** (Front, back and side Conspicuity Panels & double sided 300mm sign)

**Sign Suggestions: Signs for use on Highways**



**Other Sign suggestions: Non Highway**

Speed Signs, Entry/Exit signs, Directional Signs, Notification signs, Hazard Signs, Cycle Way indicators



## BounceBackBase

### SPECIFICATION

The LEAFIELD Bounce Back Base is a one piece moulded construction using a flexible polymer. There are no mechanical joint components, to break or fail on impact. Instead the base mould includes a male screw thread onto which a range of Night Owl Signs can be simply attached.

On impact, from a vehicle, the base will naturally deform and then 'bounce back' or 'self right' to its original position. The conical shape produces a low bend point with regards to vehicle ground clearance.

### Installation

The LEAFIELD Bounce Back Base is surface mounted using, moulded through, fixing point holes in the base. There are 2 possible alternatives.

1. The standard fixing onto existing in-situ concrete uses four shield anchors and stainless steel bolts and load spreading washers.

2. A 'concrete in' ground anchor is available for use below ground level to aid installation where new in-situ concrete is used.

3. Adapter plates compatible with other manufacturers bollards, are available on request. Hole centres are compatible with Glasdon Signmaster.

### Technical & Dimensions

#### Dimensions

Base foot print: 320mm x 320mm  
Ground fixing centres: 228mm x 228mm

#### Colours

Base unit: Black as standard (white and natural colours are available on request)

Leaffield Environmental operate a continuous product development programme and reserve the right to amend the technical information contained herein without prior notice.



## Night Owl & Bounce Back Base



Keep Left Bollard

