Brand new solutions for tomorrow's world
Passive safety
Leaffield Environmental is an active member of the Passive Revolution and produces highway products that are passively safe and tested to BS12767 Passive Safety of Non Harmful Structures.

Sustainability
Our products are principally manufactured using Medium Density Polyethylene (MDPE) which is 100% recyclable at the end of the product in-service life. In addition we offer a range of ECO Bollards that are produced using a 50% content of chipped plastic bottles. We are also using the highest visibility Diamond Grade, fluorescent, retro reflective materials and helping to reduce carbon emissions from street lighting.

Testing against the highest standard
Night Owl has been independently tested and passes, at 70 km/h, BS8442:2006 (14) Retro Reflective Bollards, the highest standard for Keep Left bollards.

Cost effectiveness
Using Polyethylene makes our highway products extremely durable and able to withstand tough urban environments with little or no in-service maintenance. This makes them a very cost effective choice compared with cast or steel bollards that require repainting or regular protection from rust.
Range and choice
This brochure showcases our extensive range of highway bollards and winter maintenance products in a wide choice of formats and finishes. In addition we are pleased to discuss specific ‘personalisation’ (logos, messages etc) that may be required.

Working with you
We work with you our customers and with other manufacturers to produce total highway solutions. See the video and case study from Hull where we worked with Streetscene Engineers and the Humberside Fire and Rescue Service. Also look at the use of Night Owl on composite Traffic Islands produced by Rediweld.

Call 01189 404717 to find out more
Nightowl
Setting a new standard* for Self Righting Bollards.

Sign Suggestions
Highway Use
610L  610R  611  Blank White

Non Highway Use

For further sign options please contact Customer Services, telephone 01189 404717.
Night Owl™ is an all plastic, recyclable, passively safe, self righting ‘Keep Left’ bollard comprising a ‘bounce back’ base unit and replaceable rigid sign carrier.

Night Owl has passed BS8442:2006, ‘Retro Reflective Self Righting Bollards’ which requires products to remain intact, returning to an upright position after a 70 km/h impact without reducing the speed of the vehicle by more than 3km/h.

Night Owl has particular application as a Keep Left bollard providing a durable, low maintenance cost, reduced carbon footprint solution for traffic islands in general. See the Night Owl brochure for detailed information.

Night Owl is a Trademark of Leafield Environmental Ltd

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**Night Owl**

**Choose from**
- Single Sided
- Double Sided

**Fixing Options**
- Surface Mounted
- Concrete Anchor (used in the MIRA Test)
- Adapter Plates for existing fixings

**Colours** (see page 23)
- Black, white & grey for Highways use
- Standard & Premium (for non Highways use)

*Night Owl has passed BS8442:2006 (14) Retro Reflective Self Righting Bollards*

---

**Bounce Back Base**

**Fixing Options**
- Surface Mounted
- Concrete Anchor (used in the MIRA Test)
- Adapter Plates for existing installations

**Colours** (see page 23)
- Black

---

**Sign Options**
- Single Sided, Sign & Panel
- Double Sided, 2 signs & 1 Panel
- Double Sided 1 sign & 2 Panels
- Double Sided 2 Signs & 2 Panels

---

**Bounce Back Base**

**Fixing Options**
- Surface Mounted
- Concrete Anchor (used in the MIRA Test)
- Adapter Plates for existing installations

**Colours** (see page 23)
- Black

---

**Specification**
- Side reflector: 53.5mm wide
- Weight: 6kg
- Material: MDPE
- All dimensions and weights are nominal

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Call: 01189 404717 | 5
Linsign 300
Traffic bollard and low level sign…
for a wide range of applications.

Sentinel Linsign 300 Visibol

Choose from
Sentinel Linsign 300 Visibol Standard or ECO
Single Sided Sign profile
or Double Sided Sign profile (see left)

Fixing Options*
Sentinel Linsign 300 Visibol Standard  All
Sentinel Linsign 300 Visibol ECO  PM, AR & S

Colours (see page 23)
Standard & Premium
ECO

Banding
Choice of Class ref 1 & Class ref 2 British
Standard Reflective banding available.
Aluminium backed for vandal resistance.
See page 13.

PM - Permanent, AR - Anti-Ram, S - Socketed, SM - Surface

*PM - Permanent, AR - Anti-Ram, S - Socketed, SM - Surface

Sign Suggestions

For further sign options please contact Customer Services,
telephone 01189 404717.

Banding Ideas

Left to right:
Light.Grey:  Blue Reflective Band
Black:  All Yellow Reflective Band
Black:  Yellow Reflective Band
Sandstone:  Red/White Reflective Band
Heritage Linsign 300

Choose from
Heritage Linsign 300 Standard or ECO
Single Sided Sign profile or Double Sided Sign profile (see page 6)

Fixing Options*
Heritage Linsign 300 Standard All Heritage Linsign 300 ECO PM, AR & S

Colours (see page 23)
Standard & Premium ECO

Banding
Choice of Class ref 1 & Class ref 2 British Standard Reflective banding available.
Aluminium backed for vandal resistance. Decorative banding is optional see page 13.

*Banding Ideas
Left to right:
Light Grey: White Reflective Band, Blue Decorative Band
Sandstone: Red/White Reflective Band
Black: Yellow Reflective Band

Heritage Linsign 300 Visibol

Choose from
Heritage Linsign 300 Visibol Standard or ECO
Single Sided Sign profile or Double Sided Sign profile (see page 6)

Fixing Options*
Heritage Linsign 300 Visibol Standard All Heritage Linsign 300 Visibol ECO PM, AR & S

Colours (see page 23)
Standard & Premium ECO

Banding
Choice of Class ref 1 & Class ref 2 British Standard Reflective banding available.
Aluminium backed for vandal resistance. Decorative banding is optional see page 13.

*Banding Ideas
Left to right:
Black: Blue Reflective Band, Blue Decorative Band
Black: All Yellow Reflective & Decorative Band
Black: Yellow Reflective Band
Sandstone: Red/White Reflective Band

Sentinel Linsign 300

Choose from
Sentinel Linsign 300 Standard or ECO
Single Sided Sign profile or Double Sided Sign profile (see page 6)

Fixing Options*
Sentinel Linsign 300 Standard All Sentinel Linsign 300 ECO PM, AR & S

Colours (see page 23)
Standard & Premium ECO

Banding
Choice of Class ref 1 & Class ref 2 British Standard Reflective banding available.
Aluminium backed for vandal resistance. See page 13.

*Banding Ideas
Left to right:
Light Grey: White Reflective Band
Sandstone: Red/White Reflective Band
Black: Yellow Reflective Band

Call: 01189 404717 | 7
Linsign 230
Traffic bollard and low level sign… ideal for parking control applications.

Sentinel Linsign 230 Visibol

Choose from
Sentinel Linsign 230 Visibol Standard or ECO Single Sided Sign profile or Double Sided Sign profile (see left)

Fixing Options* 
Sentinel Linsign 230 Visibol Standard All Sentinel Linsign 230 Visibol ECO PM, AR & S

Colours (see age 23)
Standard & Premium ECO

Banding

*PM - Permanent, AR - Anti-Ram, S - Socketed, SM - Surface

For further sign options please contact Customer Services, telephone 01189 404717.

Sign Suggestions

Sentinel Linsign 230 Visibol

Banding Ideas

Choose from
Sentinel Linsign 230 Visibol Standard or ECO Single Sided Sign profile or Double Sided Sign profile (see left)

Fixing Options* 
Sentinel Linsign 230 Visibol Standard All Sentinel Linsign 230 Visibol ECO PM, AR & S

Colours (see age 23)
Standard & Premium ECO

Banding

*PM - Permanent, AR - Anti-Ram, S - Socketed, SM - Surface

For further sign options please contact Customer Services, telephone 01189 404717.
Heritage Linsign
230

Choose from
Heritage Linsign 230 Standard or ECO
Single Sided Sign profile
or Double Sided Sign profile (see page 8)

Fixing Options*
Heritage Linsign 230 Standard All
Heritage Linsign 230 ECO PM, AR & S

Colours (see page 23)
Standard & Premium ECO

Banding
Choice of Class ref 1 & Class ref 2 British
Standard Reflective banding available.
Aluminium backed for vandal resistance.
Decorative banding is optional see page 13.

Banding Ideas
Left to right:
Light Grey: White Reflective Band, Blue Decorative Band
Sandstone: Red/White Reflective Band
Black: Yellow Reflective Band

Specification
Weight: Less than 7kg
Material: MDPE
All dimensions and weights are nominal

*PM - Permanent, AR - Anti-Ram, S - Socketed, SM - Surface

---

Heritage Linsign
230 VisiVol

Choose from
Heritage Linsign 230 VisiVol Standard or ECO
Single Sided Sign profile
or Double Sided Sign profile (see page 8)

Fixing Options*
Heritage Linsign 230 VisiVol Standard All
Heritage Linsign 230 VisiVol ECO PM, AR & S

Colours (see page 23)
Standard & Premium ECO

Banding
Choice of Class ref 1 & Class ref 2 British
Standard Reflective banding available.
Aluminium backed for vandal resistance.
Decorative banding is optional see page 13.

Banding Ideas
Left to right:
Light Grey: Blue Reflective Band, Blue Decorative Band
Black: Yellow Reflective Band
Sandstone: Red/White Reflective Band

Specification
Weight: Less than 7kg
Material: MDPE
All dimensions and weights are nominal

*PM - Permanent, AR - Anti-Ram, S - Socketed, SM - Surface

---

Sentinel Linsign
230

Choose from
Sentinel Linsign 230 Standard or ECO
Single Sided Sign profile
or Double Sided Sign profile (see page 8)

Fixing Options*
Sentinel Linsign 230 Standard All
Sentinel Linsign 230 ECO PM, AR & S

Colours (see page 23)
Standard & Premium ECO

Banding
Choice of Class ref 1 & Class ref 2 British
Standard Reflective banding available.
Aluminium backed for vandal resistance.
See page 13.

Banding Ideas
Left to right:
Light Grey: Blue Reflective Band
Sandstone: Red/White Reflective Band
Black: Yellow Reflective Band

Specification
Weight: Less than 7kg
Material: MDPE
All dimensions and weights are nominal

*PM - Permanent, AR - Anti-Ram, S - Socketed, SM - Surface

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Call: 01189 404717 | 9
Roadside Storage Bins & Sentry Sign
Ideal for a wide range of situations and applications

Above: Grit Bins used in car parks for staff and customer safety.

Left: Grit Bins can be produced in a range of colours and with personalisation.

Right: In storage 200 litre Grit Bins can be stacked five high.

Far right: Sentry Signs provide robust and useful advisory signage for garage forecourts.
Salt & Grit Bins

- Double skin perimeter lid for greater rigidity
- Robust rib structure for added strength
- Wear resistant base
- 200 litre units nest up to five high, 400 litre units nest up to four high (180 degree, 60% nest for a stable stack)
- Fork lift space for easy manoeuvrability

Capacity
200 & 400 litre capacity

Optional
- Hasp and Staple
- Gold Banding
- Personalisation

Colours (see page 23)
Standard & Premium

<table>
<thead>
<tr>
<th>Capacity</th>
<th>200 litres</th>
<th>400 litres</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>7 kg</td>
<td></td>
</tr>
<tr>
<td>Material</td>
<td>MDPE</td>
<td></td>
</tr>
</tbody>
</table>

All dimensions are nominal

Sentry Sign & Barrier

- Temporary vehicular and pedestrian warning sign
- Use in multiples to form barriers
- Stackable, practical for large events
- Robust, durable & impact resistant
- Weather resistant
- Choice of screw fixings or channel for slot-in graphic board

Colours (see page 23)
Standard & Premium

*Not included

<table>
<thead>
<tr>
<th>Capacity</th>
<th>200 litres</th>
<th>400 litres</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height</td>
<td>541 mm</td>
<td>775 mm</td>
</tr>
<tr>
<td>Depth</td>
<td>505 mm</td>
<td>430 mm</td>
</tr>
</tbody>
</table>
| All dimensions are nominal
**Bollard Product Selector**

**Options**
- **Material**
  - Standard
  - Reflex
  - ECO

- **Fixing**
  - Permanent
  - Socketed
  - Anti-ram
  - Surface

- **Signage**
  - Class ref 1
  - Class ref 2
  - Decorative band

- **Grade**
  - DDA Compliant

### Tolerances

<table>
<thead>
<tr>
<th>Material</th>
<th>Standard</th>
<th>Reflex</th>
<th>ECO*</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Height</strong></td>
<td>1000 mm</td>
<td>1000 mm</td>
<td>1500 mm</td>
</tr>
<tr>
<td><strong>Diameter</strong></td>
<td>165 mm</td>
<td>165 mm</td>
<td>200 mm</td>
</tr>
</tbody>
</table>

### Permanent Fixing (PM)

For permanent fixing of the bollard, a suitable concrete pedestal is set into the ground. The bollard is supplied as a single unit with a moulded-in 'bayonet' end replacement. The bollard comes ‘sleeve’ that sits over a robust integral circular base with four bolt holes for quick and easy fixing onto a suitable concrete pedestal. Ideal in a wide range of situations and particularly suitable for use on bridges, light traffic and low-speed impacts. *ECO version not available for full details on all options available.

### Socketed Fixing (S)

The two piece system allows the bollard to be quickly removed to allow immediate access or replacement. The bollard comes with a lockable base unit that is set in concrete below ground level. A blanking cap is inserted to maintain security within high risk areas.

### Anti-Ram Fixing (AR)

The bollard is supplied as a standard, crash-tested bollard structure that is permanently connected into the ground. Effective as a deterrent only to non-collision but still able classified and also enhances pedestrian safety within high-risk areas.

### Surface Fixing (SM)

The bollard is supplied with an integral circular base with four bolt holes for quick and easy fixing onto a suitable concrete pedestal. Ideal in high-speed impacts. *Reflex material is specified the product is only suitable for very low speed impacts.

---

**Call: 02025 86522**
Fixing options

Permanent Fixing (PM)

For permanent fixing the bollard is incorporated into the base ground. The bollard is supplied as a single unit with a moulded-in ‘sleeve’ that sits over a robust concrete ‘sleeve’ that sits over a robust concrete foundation and any situation where below ground service pipes or manholes might be vulnerable. Where reflex material is specified the product is only suitable for very low speed impacts. *ECO version not available

Anti-Ram Fixing (AR)

Anti-Ram Fixing (AR) is specified with either DDA Compliant, Reflex (Self-Righting) or Reflex material for multi-storey car parks, bridges and any situation where below ground services or manholes might be vulnerable. Where reflex material is specified the product is only suitable for very low speed impacts.

Decorative Banding

Reflective Banding

- Class 1 Engineering Grade
- Class 2 High Intensity
- Class 3 Super High Intensity

Applications:
- Non-highway traffic signs, emblems, street name plates and general signage
- Bollards
- Road works
- All Public Spaces

Reflective Banding is available in two grades and is specified using Class ref 1 or Class ref 2 material. Class ref 1 material is only suitable for very low speed impacts and Class ref 2 material is suitable for high speed impacts. Where reflex material is specified the reflective product is only suitable for very low speed impacts.

Gold and Silver metallic decorative banding is available on a standard ordered basis to add a stylish and decorative look particularly in heritage or prestige environments. If there is a special requirement to use coloured or reflective materials or the decorative banding may also be possible by quotation subject to quantities and lead times.

Material options

Reflex Bollards are available in a range of Reflex Reflective Banding that enables the products to withstand impact from any direction and return to an upright position and continue in service. Specify Reflex material for environments that are exposed to regular high impact and require rapid return to an upright position. The bollard is supplied with an integral circular base with four bolt holes for quick and easy fixing and is suitable for use in a variety of situations and particularly suitable for multi-storey car parks, bridges and any situation where below ground services or manholes might be vulnerable. Where reflex material is specified the product is only suitable for very low speed impacts.

ECO Bollards are manufactured using a combination of 50% chipped plastic bottles and 50% regular polymer. Using chipped plastic reduces the environmental impact of the product through its recycling to the absolute minimum. ECO Bollards are available in black or an attractive stone effect finish which, due to the nature of the material, will vary slightly. ECO Bollards are available as a standard optional extra to the product brochure please refer to the product brochure for full details on all options available.

Material options

Reflective Banding

- Class ref 1 Engineering Grade
- Class 2 High Intensity

Applications:
- Non-highway traffic signs, emblems, street name plates and general signage
- Bollards
- Road works
- All Public Spaces

Reflective Banding is available in two grades and is specified using Class ref 1 or Class ref 2 material. Class ref 1 material is only suitable for very low speed impacts and Class ref 2 material is suitable for high speed impacts. Where reflex material is specified the reflective product is only suitable for very low speed impacts.

Gold and Silver metallic decorative banding is available on a standard ordered basis to add a stylish and decorative look particularly in heritage or prestige environments. If there is a special requirement to use coloured or reflective materials or the decorative banding may also be possible by quotation subject to quantities and lead times.

Material options

Reflex Bollards are available in a range of Reflex Reflective Banding that enables the products to withstand impact from any direction and return to an upright position and continue in service. Specify Reflex material for environments that are exposed to regular high impact and require rapid return to an upright position. The bollard is supplied with an integral circular base with four bolt holes for quick and easy fixing and is suitable for use in a variety of situations and particularly suitable for multi-storey car parks, bridges and any situation where below ground services or manholes might be vulnerable. Where reflex material is specified the product is only suitable for very low speed impacts.

ECO Bollards are manufactured using a combination of 50% chipped plastic bottles and 50% regular polymer. Using chipped plastic reduces the environmental impact of the product through its recycling to the absolute minimum. ECO Bollards are available in black or an attractive stone effect finish which, due to the nature of the material, will vary slightly. ECO Bollards are available as a standard optional extra to the product brochure please refer to the product brochure for full details on all options available.

Gold and Silver metallic decorative banding is available on a standard ordered basis to add a stylish and decorative look particularly in heritage or prestige environments. If there is a special requirement to use coloured or reflective materials or the decorative banding may also be possible by quotation subject to quantities and lead times.

Material options

Reflective Banding

- Class ref 1 Engineering Grade
- Class 2 High Intensity

Applications:
- Non-highway traffic signs, emblems, street name plates and general signage
- Bollards
- Road works
- All Public Spaces

Reflective Banding is available in two grades and is specified using Class ref 1 or Class ref 2 material. Class ref 1 material is only suitable for very low speed impacts and Class ref 2 material is suitable for high speed impacts. Where reflex material is specified the reflective product is only suitable for very low speed impacts.

Gold and Silver metallic decorative banding is available on a standard ordered basis to add a stylish and decorative look particularly in heritage or prestige environments. If there is a special requirement to use coloured or reflective materials or the decorative banding may also be possible by quotation subject to quantities and lead times.
For permanent fixing the bollard is supplied with four lug bolts or a cast steel bracket that is set into the ground. The bollard is supplied as a single unit with a re-processing factor of 90%.

**Material options**

- **Standard**
- **ECO**
- **AL**
- **AN**
- **AR**
- **Anti-ram**
- **SR**

**Type**

- **Socketed**
- **Surface**

**Reflective Banding**

**Class of Engineering Grade**

- **Class 1 Engineering Grade**
  - **Standard**
    - Standard Type: High Intensity
      - Class 1: Engineering Grade
        - Provides good reflective performance, and suitable for high traffic density
        - Benefits: Suitable for high traffic density
        - Applications: High traffic density areas, roadworks, construction sites.
    - Standard Type: Reflective Banding
      - Class 1: Standard
        - Provides good reflective performance, and suitable for high traffic density
        - Benefits: High visibility, low maintenance costs.
        - Applications: High traffic density areas, roadworks, construction sites.

- **Class 2 High Intensity**
  - **Standard**
    - Standard Type: High Intensity
      - Class 2: High Intensity
        - Provides good reflective performance, and suitable for high traffic density
        - Benefits: High visibility, low maintenance costs.
        - Applications: High traffic density areas, roadworks, construction sites.
    - Standard Type: Reflective Banding
      - Class 2: High Intensity
        - Provides good reflective performance, and suitable for high traffic density
        - Benefits: High visibility, low maintenance costs.
        - Applications: High traffic density areas, roadworks, construction sites.

**Decorative Banding**

- **Gold/Silver banding**
- **Aluminium backed British Standard Reflective Banding**

**Class ref 1**

- **Engineering Grade**
  - **Reflective**
    - Provides good reflective performance, and suitable for high traffic density
    - Benefits: Suitable for high traffic density
    - Applications: High traffic density areas, roadworks, construction sites.

- **Decorative/Non-reflective**
  - **Reflective Banding**
    - **High Intensity**
      - **Standard**
        - Standard Type: High Intensity
          - Class 2: High Intensity
            - Provides good reflective performance, and suitable for high traffic density
            - Benefits: High visibility, low maintenance costs.
            - Applications: High traffic density areas, roadworks, construction sites.
Night Owl™

All plastic, recyclable, passively safe, self-righting ‘keep left’ bollards that minimise the consequences of collisions for the driver and reduce the cost of repair and maintenance for the authority.

Available in both illuminated and non-illuminated formats, Night Owl has passed BS EN 12767:2007 & BS 8442:2006, ‘Retro Reflective Self Righting Bollards’ which require products to remain intact, returning to an upright position after a high speed impact, without reducing the speed of the vehicle by more than 3km/h.

Night Owl has particular application as a ‘keep left’ bollard providing a durable, low maintenance, energy efficient, reduced carbon footprint solution for traffic islands in general. See the Night Owl brochures for detailed information.

Night Owl is a Trademark of Leafield Environmental Ltd

LEAFIELD ENVIRONMENTAL
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Leafield Industrial Estate
Corsham, Wiltshire
SN13 9UD
Tel: 01225 816522
Fax: 01225 816501
Email: highways@leafield-environmental.com
www.leafieldhighway.com

Type | Illuminated | Non-illuminated
--- | --- | ---
Dimensions | | |
Height 1037 | 1037 |
Width / Depth 395 / 110 | 395 / 110 |
Sign face 300 dia | 300 dia |
Base 320 x 320 | 320 x 320 |
Material One piece reflex/rigid polymer composite | Reflex base, rigid polymer bollard |
Passively safe PM  | Permanent BS EN 12767:2007 100 NE4. BS EN 12767:2007 100 NE4. |
Conspicuity Type Fluorescent translucent retroreflective to BS 5740 | Fluorescent retroreflective to BS 5740 |
Area front 0.16m² | 0.16m² |
Area side 0.045m² | 0.045m² |
Lighting Source Cree LED powered by Zeta 240V - 6.65 Watts | |
| Photocell 55 Lux, Switching ratio 1:0.5 | |
Typical burn hours 4115 | |
UMSUG Charge code 40 0007 0006 100 | |
Fixing Attach to in-ground Duct Box, Retrofit to other base boxes with adapter plate | Concrete in

Night Owl™ has particular applications as a ‘keep left’ bollard providing a durable, low maintenance, energy efficient, reduced carbon footprint solution for traffic islands in general. See the Night Owl brochures for detailed information.

Highways product selector
brand new solutions for tomorrow’s world

About Leafield Environmental
We are an award winning UK manufacturer and a specialist producer of solutions for the needs of the Litter, Recycling, Highways, Food Processing, Water, and Agricultural markets.

Our customers include the country’s leading Companies, Universities and Public Sector institutions.

Environmental - ISO 14001
We care about the environment and our business has in place Environmental Management Systems that have been certified and comply with BS EN ISO 14001:2004.

Quality & Service - ISO 9001
Certified to BS EN ISO 9001:2008, ensuring that our customers receive a consistently high level of quality and service.

Health & Safety
We put the occupational Health and Safety of our staff first and we are an OHSAS 18001 certified employer.

Sustainability
Our products are principally manufactured using Medium Density Polyethylene (MDPE) which is 100% recyclable at the end of the product service life.

Disability Discrimination Act (DDA)
The DDA seeks to ensure that public spaces and buildings are accessible to all. Night Owl is an approved product because of its low build height and the principles of the DDA apply to our design and use. The current extension range of products that comply with these requirements, and future versions, are indicated accordingly.

Email us... 
highways@leafield-environmental.com
recycle@leafield-environmental.com
litter@leafield-environmental.com
food@leafield-environmental.com
paxton@leafield-environmental.com

About Leafield Environmental
We are an award winning UK manufacturer and a specialist producer of solutions for the needs of the Litter, Recycling, Highways, Food Processing, Water, and Agricultural markets.

Our customers include the country’s leading Companies, Universities and Public Sector institutions.

Environmental - ISO 14001
We care about the environment and our business has in place Environmental Management Systems that have been certified and comply with BS EN ISO 14001:2004.

Quality & Service - ISO 9001
Certified to BS EN ISO 9001:2008, ensuring that our customers receive a consistently high level of quality and service.

Health & Safety
We put the occupational Health and Safety of our staff first and we are an OHSAS 18001 certified employer.

Sustainability
Our products are principally manufactured using Medium Density Polyethylene (MDPE) which is 100% recyclable at the end of the product service life.

Delivery
Point
10
Highway Use
Non Highway Use
610L 610R 611 Blank White

Night Owl™ has particular applications as a ‘keep left’ bollard providing a durable, low maintenance, energy efficient, reduced carbon footprint solution for traffic islands in general. See the Night Owl brochures for detailed information.

Highways product selector
brand new solutions for tomorrow’s world

exemplary design and quality
Heritage

Traditional style… choice of options… suitable for urban and rural environments.

Top: Heritage 150 Reflex bollards with customised reflective banding.

Far left: Heritage 150 Reflex bollards reduce damage & maintenance in car parks.

Left: Heritage 150 Visibol.

Right: Heritage Decorative.
**Heritage 150**

Choose from
Heritage 150 Standard
Heritage 150 Reflex
Heritage 150 ECO

Fixing Options*
Heritage 150 Standard
Heritage 150 Reflex
Heritage 150 ECO

Colours (see page 23)
Standard & Premium
Reflex or ECO

Banding
Choice of Class ref 1 & Class ref 2 British Standard Reflective banding available. Aluminium backed for vandal resistance. Decorative banding is optional see page 13.

*PM - Permanent, AR - Anti-Ram, S - Socketed, SM - Surface

---

**Heritage Decorative**

Choose from
Heritage Decorative Standard
Heritage Decorative Reflex
Heritage Decorative ECO

Fixing Options*
Heritage Decorative Standard
Heritage Decorative Reflex
Heritage Decorative ECO

Colours (see page 23)
Standard & Premium
Reflex ECO

Banding

*PM - Permanent, AR - Anti-Ram, S - Socketed, SM - Surface

---

**Heritage 150 Visibol**

Choose from
Heritage 150 Visibol Standard
Heritage 150 Visibol ECO

Fixing Options*
Heritage 150 Visibol Standard
Heritage 150 Visibol ECO

Colours (see page 23)
Standard & Premium
ECO

Banding
Choice of Class ref 1 & Class ref 2 British Standard Reflective banding available. Aluminium backed for vandal resistance. Decorative banding is optional see page 13.

*PM - Permanent, AR - Anti-Ram, S - Socketed, SM - Surface

---

Specifiication
Weight: Less than 7kg
Material: MDPE
All dimensions and weights are nominal

---

**Banding Ideas**

Left to right:
Light Grey: Blue Reflective Band, Blue Decorative Band
Burgundy: Yellow Reflective Band
Racing Green: Yellow Reflective Band, Gold Decorative band
Sandstone: Red/White Reflective Band

---

**Banding Ideas**

Left to right:
Light Grey: Blue Cycle Reflective Band, Blue Decorative Band
Black: Yellow Reflective Band
Black: All Yellow Reflective & Decorative Band
Sandstone: Red/White Reflective Band

---

**Banding Ideas**

Left to right:
Light Grey: Blue Decorative Band
Burgundy: Gold Decorative Band
Racing Green: Gold Decorative Band
Sandstone: Red Reflective Band

---

**Specification**
Weight: Less than 6kg
Material: MDPE
All dimensions and weights are nominal

---

Call: 01189 404717 | 15
Regency & Woburn

Traditional profiles… modern material… practical choice.

Choose from
Woburn 75 Standard
Woburn 75 Reflex

Fixing Options*
Woburn 75 Standard
Woburn 75 Reflex

Colours (see page 23)
Standard & Premium Reflex

Branding

Banding Ideas
Left to right:
- Light Grey: Blue Reflective Band
- Black: Yellow Reflective Band
- Racing Green: Yellow Reflective Band
- Sandstone: Red/White Reflective Band

*PM - Permanent, AR - Anti-Ram, S - Socketed, SM - Surface
Choose from
Regency 150 Standard
Regency 150 Reflex

Fixing Options*
Regency 150 Standard  All
Regency 150 Reflex     PM & SM

Colours (see page 23)
Standard & Premium
Reflex

Banding
Choice of Class ref 1 & Class ref 2 British
Standard Reflective banding available.
Aluminium backed for vandal resistance.
See page 13.

*PM - Permanent, AR - Anti-Ram, S - Socketed, SM - Surface

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Choose from
Regency Decorative Standard
Regency Decorative Reflex

Fixing Options*
Regency Decorative Standard  PM, S & SM
Regency Decorative Reflex        PM & SM

Colours (see page 23)
Standard & Premium
Reflex

Banding
Choice of Decorative banding available.
See page 13.

*PM - Permanent, AR - Anti-Ram, S - Socketed, SM - Surface

---

Choose from
Woburn 150 Standard
Woburn 150 Reflex

Fixing Options*
Woburn 150 Standard  All
Woburn 150 Reflex    PM & SM

Colours (see page 23)
Standard & Premium
Reflex

Banding
Choice of Class ref 1 & Class ref 2 British
Standard Reflective banding available.
Aluminium backed for vandal resistance.
See page 13.

*PM - Permanent, AR - Anti-Ram, S - Socketed, SM - Surface

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Regency 150

DDA  REFLEX  Class ref 1&2

---

Regency Decorative

DDA  REFLEX

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Woburn 150

DDA  REFLEX  Class ref 1&2

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Call: 01189 404717  |  17
Sentinel Bollards
Contemporary style... durable & practical... ideal for urban, retail and industrial locations.

Above: Sentinel 150 stylish and practical.
Far Left: Sentinel 150 with Anti Ram fixing for garage forecourts.
Left: Sentinel 150 used at crossings as visual and physical indication.
Right: Sentinel 150 with reflective graphic banding denoting cycle way.
Choose from
Sentinel 150 Standard
Sentinel 150 Reflex
Sentinel 150 ECO

Fixing Options*
Sentinel 150 Standard
Sentinel 150 Reflex
Sentinel 150 ECO

Colours (see page 23)
Standard & Premium
Reflex or ECO

Banding
Choice of Class ref 1 & Class ref 2 British
Standard Reflective banding available.
Aluminium backed for vandal resistance.
See page 13.

*PM - Permanent, AR - Anti-Ram, S - Socketed, SM - Surface

---

Choose from
Sentinel 150 Visibol Standard
Sentinel 150 Visibol ECO

Fixing Options*
Sentinel 150 Visibol Standard
Sentinel 150 Visibol ECO

Colours (see page 23)
Standard & Premium
ECO

Banding
Choice of Class ref 1 & Class ref 2 British
Standard Reflective banding available.
Aluminium backed for vandal resistance.
See page 13.

*PM - Permanent, AR - Anti-Ram, S - Socketed, SM - Surface

---

Choose from
Sentinel Decorative Standard
Sentinel Decorative Reflex
Sentinel Decorative ECO

Fixing Options*
Sentinel Decorative Standard
Sentinel Decorative Reflex
Sentinel Decorative ECO

Colours (see page 23)
Standard & Premium
Reflex
ECO

Banding
Choice of Decorative banding available.
See page 13.

*PM - Permanent, AR - Anti-Ram, S - Socketed, SM - Surface
Bollards for Town and Country
... designs to suit a range of applications.

Above: Edgeminder bollards used to protect grass verges.
Left: Sterling bollards used with chain link, supplied by customer.
Right: Monarch bollards used to protect an office building.
Monarch

Choose from
Monarch Standard
Monarch Reflex

Fixing Options*
Standard PM & AR
Reflex PM

Colours (see page 23)
Standard & Premium Reflex

Banding
Choice of Class ref 1 British Standard
Reflective banding available. See page 13.

*PM - Permanent, AR - Anti-Ram, S - Socketed, SM - Surface

Banding Ideas
Left to right:
Pallet Orange: Red Reflective Band
Signal Red: Yellow Reflective Band
Racing Green: Yellow Reflective Band
Golden Yellow: Red Reflective Band

Specifications
Weight: Less than 3.5kg
Material: MDPE
All dimensions and weights are nominal

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Edgeminder

Choose from
Edgeminder Standard
Edgeminder Reflex
Edgeminder ECO

Fixing Options*
Standard PM
Reflex PM
ECO PM

Colours (see page 23)
Standard & Premium Reflex or ECO

Banding
Choice of Class ref 1 & Class ref 2 British Standard
Reflective banding available.
Aluminium backed for vandal resistance.
Decorative banding is optional see page 13.

*PM - Permanent, AR - Anti-Ram, S - Socketed, SM - Surface

Banding Ideas
Left to right:
Light Grey: Blue Reflective Band
Burgundy: Gold Reflective Band
Racing Green: Silver Reflective Band
Sandstone: Red Reflective Band

Specifications
Weight: Less than 1.75kg
Material: MDPE
All dimensions and weights are nominal

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Sterling

Choose from
Sterling Standard
Sterling Reflex

Fixing Options*
Standard PM & AR
Reflex PM

Colours (see page 23)
Standard & Premium Reflex

*PM - Permanent, AR - Anti-Ram, S - Socketed, SM - Surface

Banding Ideas

Specifications
Weight: Less than 5kg
Material: MDPE
All dimensions and weights are nominal
**Vergemarker**

High on practicality and visibility... low on maintenance and cost.

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**Colours**

Leafield manufactures all its products to order, so it is often possible to match your colour scheme or other specifications.

Please call our Customer Services Team to discuss your requirements.
Vergemarkers provide a high visibility warning sign and are particularly effective in a range of high risk incident situations including deceptive bends and junctions.

Vergemarkers are manufactured as a single unit and have a moulded-in below ground section to allow for permanent fixing. They are produced in very strong reflex material and the overall product design provides low impact resistance to vehicles.

If struck by a vehicle Vergemarker is designed to fold at a specific crease point without unduly reducing the vehicle speed. Unobstructed they will self right to an upright position to continue in service.

The reflector is a Class 2 retro-reflective material on a stainless steel backing for improved adhesion and durability.

Choose from
Reflex Vergemarker
Fixing Options*
Reflex Vergemarker
Colours (see page 23)
Black
Banding
White band as standard.

Vergemarker

REFLEX
Class ref 2

Specification
Weight: Less than 1.9kg
Material: MDPE
All dimensions and weights are nominal

Standard

Black
Admiralty Grey
Light Grey
Bluebell White
Pallet Orange
Classic Navy
RSJ Green
Racing Green
Signal Red
Burgundy
Golden Yellow

Premium

Sandstone Mottle
 Slate Mottle Grey

Reflex

White Reflex
Black Reflex

ECO

50% reclaimed bottles - Mottle
50% reclaimed bottles - Black

The colours reproduced in this brochure are constrained by the printing process. Colour plaques are available on request if required.

* Denotes a colour with a longer lead time
** Denotes a colour with a premium price point
About Leafield Environmental
We are an award winning UK manufacturer and a specialist producer of solutions for the needs of the Litter, Recycling, Highways, Water, and Agricultural markets. Our customers include the country’s leading Companies, Universities and Public Sector institutions.

Environmental - ISO 14001
We are a company that cares about the environment and our business has in place Environmental Management Systems that have been certified and comply with BS EN ISO 14001:2004.

Quality & Service - ISO 9001
We have a ‘quality culture’ running throughout our business and have systems in place, certified to BS EN ISO 9001:2008, which ensure that our customers receive a consistently high level of quality and service.

Health & Safety
We care about the occupational Health and Safety of our staff and are an OHSAS 18001 certified employer.

Registered Designs
Vergemarker, Sentinel 150, Night Owl and Night Owl Base are the Registered Designs of Leafield Environmental.

Sustainability
Our products are principally manufactured using Medium Density Polyethylene (MDPE) which is 100% recyclable at the end of the product in-service life. Wherever possible our products are made using a proportion of recycled material that varies according to product type and colour.

Award Winning Design
Our design team consistently produce product solutions that are independently recognised for their excellence.

2003 Best Environmental or Energy Efficiency Programme
2003 National Recycling Awards Recycled product of the year finalist
2008 Best Industrial Product Design TwinBin
2008 Technical Innovation Award WT Drinking Troughs
2010 Horners Award for Plastic Design & Innovation (Highly Commended Certificate) Night Owl Keep Left Bollard

Leafield Environmental is setting new standards in the design, manufacture and performance of a range of specialist products for the Highways market. From the exciting new Night Owl Keep Left bollard with its high passive safety rating and our range of Reflex or ‘bounce back’ bollards to our ECO products that utilise recycled plastic bottles, Leafield Environmental’s innovative, solutions led approach is clearly apparent.

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www.streetfurnishings.co.uk