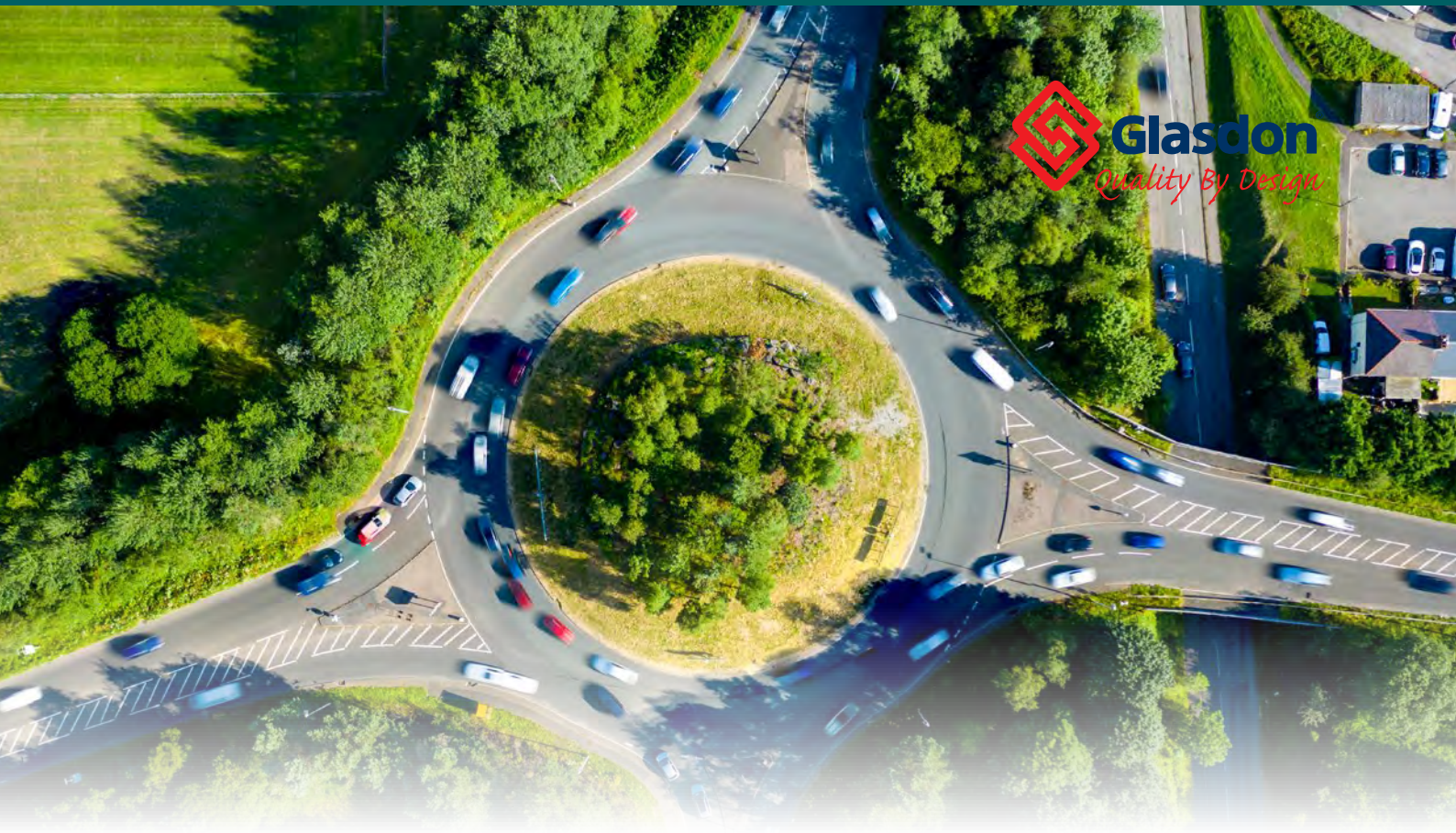


Highways Safety Solutions



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Founded in Blackpool in 1959, over the last 65 years we have grown into a successful worldwide brand.

Distributed in 100+ countries

Turnover c.£40m

280+ staff in UK, France & USA

B2B Dealing with Government funded sectors and with private and public companies worldwide.

Glasdon Pledge to Reach **Net Zero** By 2035

Net Zero by 2035 (with Scope 1 & 2 to be achieved by 2025).

The Environment is at our Core

We are passionate about our environment and are committed to continuously improving our environmental performance. Our goal is to drive lasting change to improve all of our futures, not only by improving our own processes but by providing our customers with the products to enable them to improve theirs.



Quality by Design

Our mission is to design, manufacture and supply innovative market-leading products that enable our customers to contribute towards a cleaner, safer and more sustainable environment.



■ Passive Safety

Passively safe street furniture is designed to minimise the severity of injury to occupants of a vehicle that collides with it. The European Standard BS EN 12767 defines a universal test that establishes the performance of a passively safe roadside structure.

The performance rating is displayed in the following format:

The first number indicates the class impact speed in kph: 50, 70 or 100kph. Tests are conducted with a small (900kg) car in a head-on, frontal impact.

The two letters represent the energy absorbed by the structure: High energy absorbing (HE) support structures slow the vehicle considerably on impact; Low energy (LE) structures measurably slow the vehicle but pose a much lower risk of injury to its occupants; Non-energy absorbing (NE) structures have negligible or nil effect on the speed of the vehicle.

The final letter represents the occupant safety level and is based on the Acceleration Severity Index (ASI) and Theoretical Head Impact Velocity (THIV) scales, according to European Standard BS EN 1317-1. The available levels are A-E, where 'A' represents the safest and 'E' the least safe.

Glasdon passively safe highways products are tested by accredited independent specialists at Horiba-MIRA, TRL and Transpolis. Where testing has been conducted, the performance rating will be clearly shown on the page.



»» Transpolis

MIRA



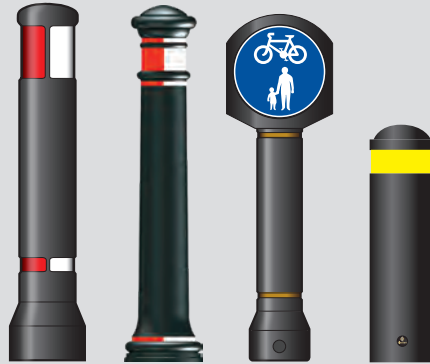
■ Sustainability

From integrating sustainable practices into our day-to-day working practices to using recycled and recyclable materials in our product ranges, we have made many improvements over the years to enhance our environmental accountability. These include:

- Using long-lasting, corrosion-resistant materials for extended product lifespan, reducing the need for frequent replacements and associated carbon footprint.
- Incorporation of recycled materials in manufacturing where possible.
- Designing products that are fully recyclable at the end of their service life, minimising waste.
- Using lightweight materials for reduced transportation emissions and easier handling.
- Supplying socketed products to eliminate the need for additional concrete foundations if a bollard needs replacing, further reducing the carbon footprint associated with installation and maintenance.

1 Choose a Bollard:

Our bollards are suitable for all customers, from councils to small businesses, and are available in both modern and traditional styles.



2 Specify the Material:

Choose between our rigid Durapol® material or our passively safe self-righting Impactapol® material. Bollards made from 100% recycled rubber or Enviropol® material are also available.

See page 70 for more details about our high-performance materials.

3 Specify the Colour:

You can choose from a variety of colours including black, white, aircraft grey, millstone and granite.



Black



White



Aircraft Grey



Millstone



Granite

5 Choose the Reflective Banding Colour if Required:

Our reflective banding colour options conform to highway regulations. Red indicates a near-side edge of a carriageway; white, an off-side edge; and amber, the off-side edge of a dual carriageway.



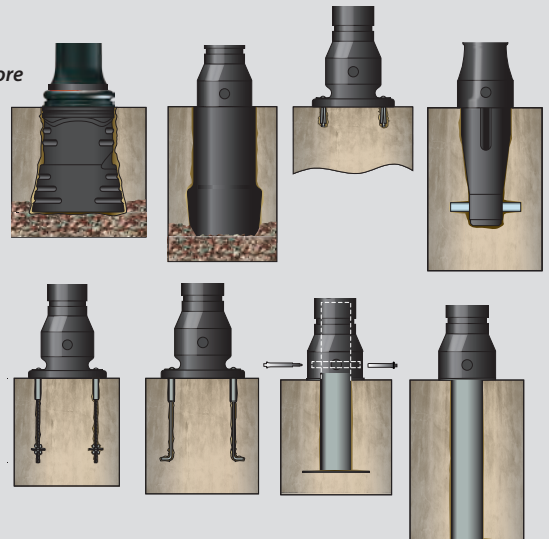
4 Choose a Fixing:

Our selection of eight different fixing methods ensures that there will be one that is right for your application.

They fall under 4 categories:

- **Sockets:** ideal for permanent, semi-permanent and temporary applications. Once installed, sockets allow speedy bollard removal and replacement.
- **Bolt-Down Fixing:** fast, permanent installation into existing cured concrete sub-surfaces.
- **Concrete-in Fixings:** for permanent, secure fixing into wet concrete.
- **Special Purpose:** Bridgemastr™ is ideal for the transition between true land and bridge decking, and Guardsman™ is an excellent anti-ram-raid feature.

See pages 67 to 69 for more details.





Highway Bollards

Glasdon have been designing and manufacturing bollards for more than 40 years. Our versatile road safety solutions are used all over the highways and byways of the United Kingdom, and we believe we have a product for every application.

Our highway bollards come in a variety of traditional and modern styles that can be specified as rigid Durapol® or flexible Impactapol® models. Most of our bollards have the option of a socket system, which reduces maintenance costs for councils and improves safety for road workers.



Advanced Neopolitan™ 150 Bollard

DESIGN FEATURES

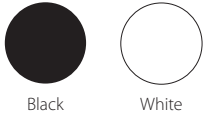
- Available as a self-righting Rebound bollard or rigid Durapol®-material model.
- Choice of two fixing options: LockFast™ Socket System or permanent, below-ground, extended base fixing.
- Low maintenance and durable.
- Large, 150mm tall, retroreflective patches at the top of the bollard.
- Large, 40mm lower reflector catches dipped headlights.
- Individual reflector recesses protect reflectors in the event of a drive-through collision.
- LockFast Socket allows quick and easy bollard top replacement.
- Optional blanking plate to prevent potential trip hazard if the bollard is temporarily removed from its socket.

SPECIFICATIONS

Height above ground:	925mm
Maximum diameter:	200mm
Depth below ground:	
With socket:	350mm
With extended base:	300mm

**Rebound Impactapol model only.*



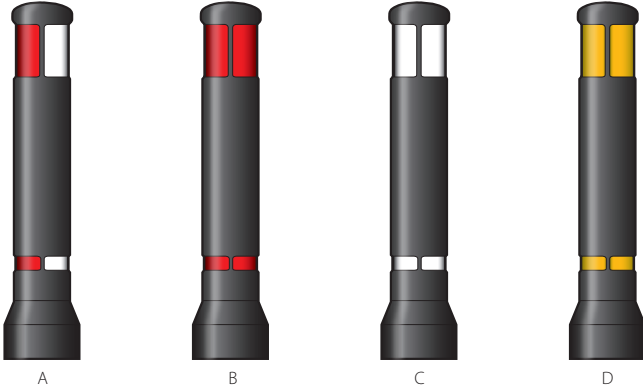


MATERIAL & COLOUR OPTIONS

Bollard: Passively safe Impactapol® material or rigid Durapol material

LockFast Socket: Durapol material.

Durapol material and Passively Safe Rebound Impactapol material: Black, White.



BANDING OPTIONS

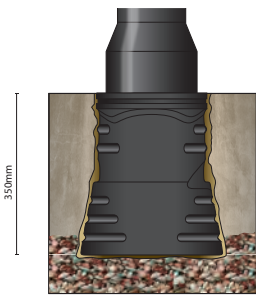
A. 2 x 150mm and 2 x 40mm Red/White retroreflective patches#

B. 2 x 150mm and 2 x 40mm Red retroreflective patches#

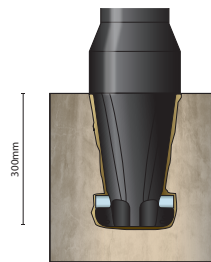
C. 2 x 150mm and 2 x 40mm White retroreflective patches#

D. 2 x 150mm and 2 x 40mm Amber retroreflective patches#

*All of our retroreflective materials meet the requirements in table NA1 of the National Annex of BS EN 12899-1:2007 Fixed Vertical Road Signs.



LockFast Socket



Below-Ground,
Extended Base



LockFast blanking plate: for use
with LockFast socket

FIXING OPTIONS

LockFast Socket; Below-Ground, Extended Base.



Highway Bollards



■ Glasdon Manchester™ Bollard

DESIGN FEATURES

- Available as a self-righting Rebound bollard or rigid Durapol®-material model.
- Never requires painting, unlike cast iron equivalents.
- Low maintenance and durable.
- A fraction of the weight of a metal bollard: can be installed by one person.
- Existing cast-iron bollards can be replaced over time to save cost.
- Recessed areas for retroreflective or decorative banding.
- LockFast™ Socket allows quick and easy bollard top replacement.
- Optional blanking plate to prevent potential trip hazard if the bollard is temporarily removed from its socket.

SPECIFICATIONS

Height above ground:	1005mm
Maximum diameter:	220mm
Depth below ground:	
With socket:	350mm
With extended base:	300mm

**Rebound Impactapol model only.*





Black

MATERIAL & COLOUR OPTIONS

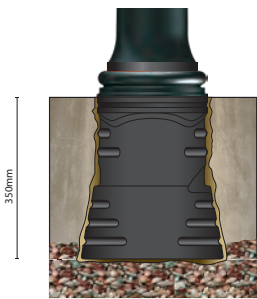
Bollard: Passively safe Impactapol® material or rigid Durapol material.
LockFast Socket: Durapol material.
Durapol material and Passively Safe Rebound Impactapol material: Black.



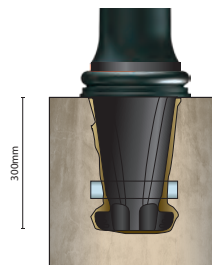
BANDING OPTIONS

- A. 1 x 63mm and/or up to 3 x 12mm Red/White retroreflective bands*
- B. 1 x 63mm and/or up to 3 x 12mm Red retroreflective bands*
- C. 1 x 63mm and/or up to 3 x 12mm White retroreflective bands*
- D. 1 x 63mm and/or up to 3 x 12mm Amber retroreflective bands*
- E. 1 x 63mm and/or up to 3 x 12mm Gold Decorative bands

*All of our retroreflective materials meet the requirements in table NA1 of the National Annex of BS EN 12899-1:2007 Fixed Vertical Road Signs.



LockFast Socket



Below-Ground,
Extended Base



LockFast blanking plate: for use
with LockFast socket

FIXING OPTIONS

LockFast Socket; Below-Ground, Extended Base.



Highway Bollards



■ Neopolitan™ 150 Bollard

DESIGN FEATURES

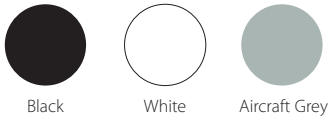
- Available as a self-righting Rebound bollard or rigid Durapol®-material model.
- Low maintenance and durable.
- Recessed areas for retroreflective or decorative banding.
- Wide range of fixing options available.
- Optional blanking plate to prevent potential trip hazard if the bollard is temporarily removed from its socket.

SPECIFICATIONS

Height above ground:	925mm
Socketted/extended-base/Guardsman™ models:	1005mm
Bolted down:	200mm
Maximum diameter:	200mm
Depth below ground:	
Socket:	500mm
Extended base:	420mm
Guardsman™ fixing:	745mm
Bridgmaster™ fixing:	311mm
Bolted down:	75mm
Adjustable depth, concrete-in anchors:	320mm (Max.)

*Rebound Impactapol model only.





Black

White

Aircraft Grey

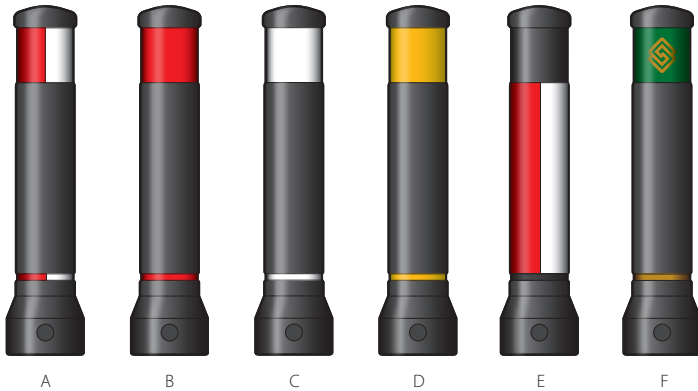
MATERIAL & COLOUR OPTIONS

Bollard: Passively safe Impactapol® material or rigid Durapol material.

Socket: Durapol material.

Durapol Material: Black, White, Aircraft Grey.

Passively Safe Rebound Impactapol Material: Black, White.



A

B

C

D

E

F

BANDING OPTIONS

A. 1 x 150mm and 1 x 20mm Red/White retroreflective bands*

B. 1 x 150mm and 1 x 20mm Red retroreflective bands*

C. 1 x 150mm and 1 x 20mm White retroreflective bands*

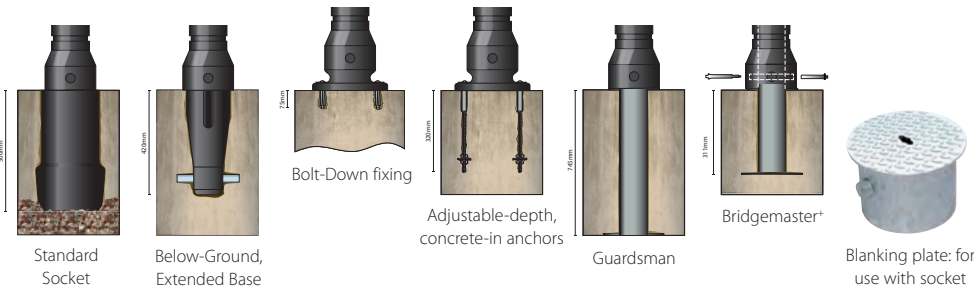
D. 1 x 150mm and 1 x 20mm Amber retroreflective bands*

E. 1 x 485mm Red/White, Red, White or Amber body sleeve (3 x 150mm bands are available for use with Rebound model)*

F. 1 x 150mm and 1 x 20mm decorative bands

150mm band is ideal for personalisation with your crest, logo or message.

*All of our retroreflective materials meet the requirements in table NA1 of the National Annex of BS EN 12899-1:2007 Fixed Vertical Road Signs.



Standard Socket

Below-Ground, Extended Base

Bolt-Down fixing

Adjustable-depth, concrete-in anchors

Guardsman

Bridgemaster*

Blanking plate: for use with socket

FIXING OPTIONS

Rigid Model: Standard Socket; Below-Ground, Extended Base; Bolt-Down fixing; Adjustable-depth, concrete-in anchors; Guardsman; Bridgemaster.

Passively Safe Rebound Model: Below-Ground, Extended Base; Bolt-Down fixing; Adjustable-depth, concrete-in anchors.

*Please note: Bridgemaster fixing is available in Black Durapol material only.





■ 600mm High Neopolitan™ 150 Bollard

DESIGN FEATURES

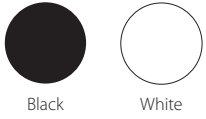
- Designed for improved visibility at junctions and lay-bys.
- Available as a self-righting Rebound bollard or a rigid Durapol®-material model.
- Low maintenance and durable.
- Recessed areas for retroreflective or decorative banding.
- Co-ordinates with Neopolitan 150 and Neopolitan 20 Bollards

SPECIFICATIONS

Height above ground:	612mm
Maximum diameter:	200mm
Base:	300 x 300mm
Depth below ground:	
Bolted down:	75mm
Adjustable-depth, concrete-in anchors:	320mm (Max.)

*Rebound Impactapol model only.





Black

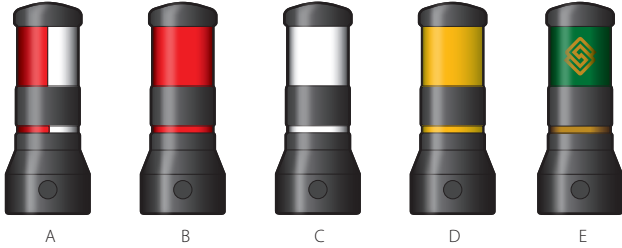
White

MATERIAL & COLOUR OPTIONS

Bollard: Passively safe Impactapol® material or rigid Durapol material

Durapol Material: Black, White.

Passively Safe Rebound Impactapol material: Black, White.



BANDING OPTIONS

A. 1 x 150mm and 1 x 20mm Red/White retroreflective bands*

B. 1 x 150mm and 1 x 20mm Red retroreflective bands*

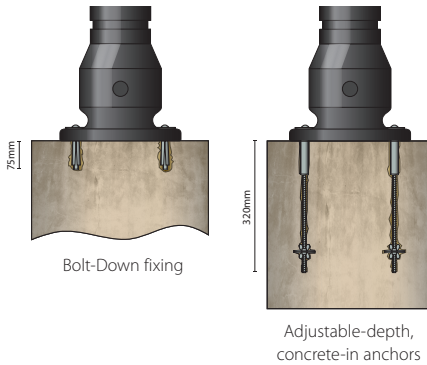
C. 1 x 150mm and 1 x 20mm White retroreflective bands*

D. 1 x 150mm and 1 x 20mm Amber retroreflective bands*

E. 1 x 150mm and 1 x 20mm decorative bands

150mm band is ideal for personalisation with your crest, logo or message.

*All of our retroreflective materials meet the requirements in table NA1 of the National Annex of BS EN 12899-1:2007 Fixed Vertical Road Signs.



FIXING OPTIONS

Bolt-Down fixings; Adjustable-depth, concrete-in anchors.





■ Neopolitan™ 20 Bollard

DESIGN FEATURES

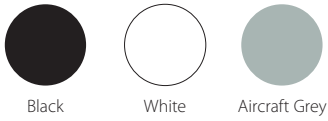
- Available as a self-righting Rebound bollard or rigid Durapol®-material model.
- Low maintenance and durable.
- Recessed areas for retroreflective or decorative banding.
- Wide range of fixing options available.
- Optional blanking plate to prevent potential trip hazard if the bollard is temporarily removed from its socket.

SPECIFICATIONS

Height above ground:	925mm
Maximum diameter:	200mm
Depth below ground:	
Socket:	500mm
Extended base:	420mm
Guardsman™ fixing:	745mm
Bridgmaster™ fixing:	311mm
Bolt-down fixing:	95mm
Adjustable-depth, concrete-in anchors:	250mm (max.)

*Rebound Impactapol model only.





Black

White

Aircraft Grey

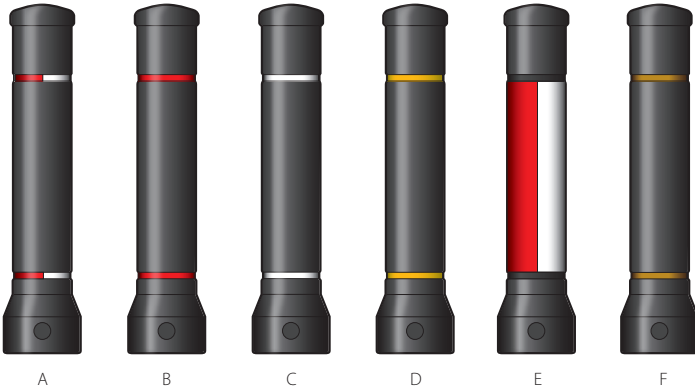
MATERIAL & COLOUR OPTIONS

Bollard: Passively safe Impactapol® material or rigid Durapol material.

Socket: Durapol material.

Durapol Material: Black, White, Aircraft Grey.

Passively Safe Rebound Impactapol material: Black, White.



A

B

C

D

E

F

BANDING OPTIONS

A. 2 x 20mm Red/White retroreflective bands*

B. 2 x 20mm Red retroreflective bands*

C. 2 x 20mm White retroreflective bands*

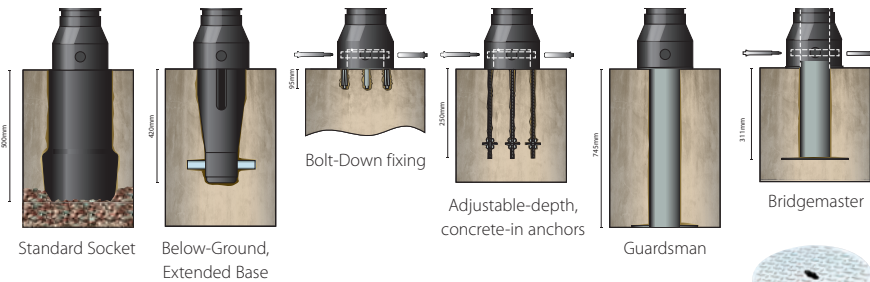
D. 2 x 20mm Amber retroreflective bands*

E. 1 x 485mm Red/White, Red, White or Amber body

sleeve (3 x 150mm bands are available for use with Rebound model)*

F. 2 x 20mm Gold decorative bands

*All of our retroreflective materials meet the requirements in table NA1 of the National Annex of BS EN 12899-1:2007 Fixed Vertical Road Signs.



Standard Socket

Below-Ground,
Extended Base

Bolt-Down fixing

Adjustable-depth,
concrete-in anchors

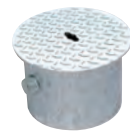
Guardsman

Bridgemaster

FIXING OPTIONS

Rigid Model: Standard Socket; Below-Ground, Extended Base; Bolt-Down fixing; Adjustable-depth, concrete-in anchors; Guardsman; Bridgemaster.

Passively Safe Rebound Model: Below-Ground, Extended Base.



Blanking plate: for
use with socket



Highway Bollards



Admiral™ Bollard

DESIGN FEATURES

- Available as a self-righting Rebound bollard or rigid Durapol®-material model.
- Low maintenance and durable.
- 80mm (Rigid) or 150mm (Rebound) banding recess.
- Optional blanking plate to prevent potential trip hazard if the bollard is temporarily removed from its socket.

SPECIFICATIONS

Height above ground:	936mm
Maximum diameter:	198mm
Depth below ground:	
Socket:	500mm
Extended base (Impactapol® model):	300mm
Extended base (Durapol® model):	430mm

*Rebound Impactapol model only.

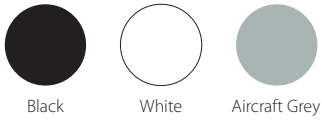


Glasdon focus on Highly Visible Junction Marker Bollards for Somerset County Council.

What the Customer says:

"Somerset County Council have found the Admiral junction marker to be a useful tool in their armoury, as part of integrated route treatment works in rural locations. It has been effective in reducing road accident casualties and gives drivers enhanced information on road layouts and potential hazards."

Mr Nick Cowling, Team Leader Accident Data and Engineering, Somerset Highways.



Black White Aircraft Grey

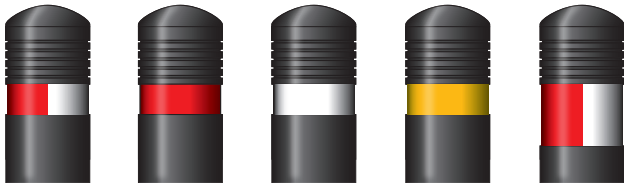
MATERIAL & COLOUR OPTIONS

Bollard: Passively safe Impactapol material or rigid Durapol material.

Socket: Durapol material.

Durapol material: Black, White, Aircraft Grey.

Passively Safe Rebound Impactapol material: Black, White.



A B C D E*

BANDING OPTIONS

A. 1 x 80mm Red/White retroreflective band*

B. 1 x 80mm Red retroreflective band*

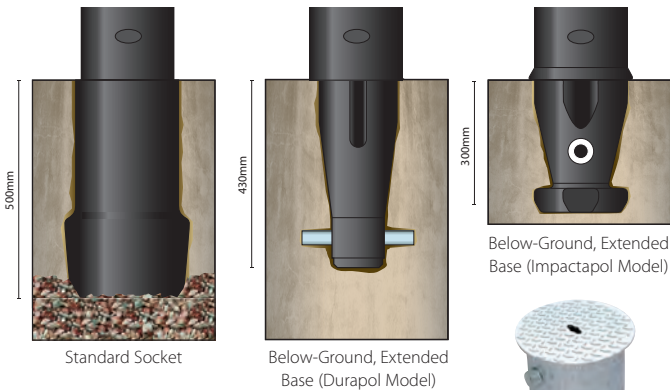
C. 1 x 80mm White retroreflective band*

D. 1 x 80mm Amber retroreflective band*

E. 1 x 150mm Red/White, Red, White or Amber retroreflective band*

*All of our retroreflective materials meet the requirements in table NA1 of the National Annex of BS EN 12899-1:2007 Fixed Vertical Road Signs.

* Available with the self-righting Rebound model only.



FIXING OPTIONS

Rigid Model: Standard Socket; Below-Ground, Extended Base.

Passively Safe Rebound Model: Below-Ground, Extended Base.



Highway Bollards



■ Victory™ Bollard

DESIGN FEATURES

- Available as a self-righting Rebound bollard or rigid Durapol®-material model.
- Never requires painting, unlike cast iron equivalents.
- Low maintenance and durable.
- A fraction of the weight of a metal bollard: can be installed by one person.
- Recessed areas for retroreflective or decorative banding.
- Optional blanking plate to prevent potential trip hazard if the bollard is temporarily removed from its socket.

SPECIFICATIONS

Height above ground:	967mm
Maximum diameter:	200mm
Depth below ground:	
With socket:	500mm
With extended base:	420mm

**Rebound Impactapol model only.*





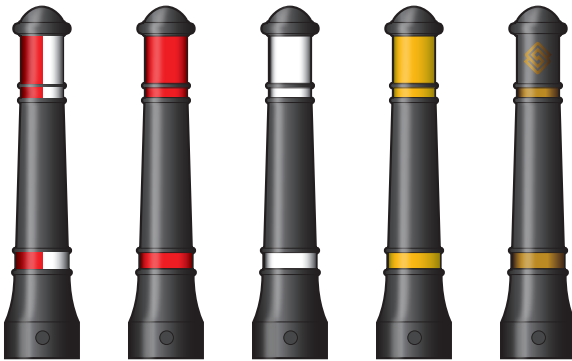
Black

MATERIAL & COLOUR OPTIONS

Bollard: Passively safe Impactapol[®] material or rigid Durapol material.

Socket: Durapol material

Durapol material and Passively Safe Rebound Impactapol material: Black.



A

B

C

D

E

BANDING OPTIONS

A. 1 x 125mm and/or 1 x 20mm and/or 1 x 38mm Red/White retroreflective bands*

B. 1 x 125mm and/or 1 x 20mm and/or 1 x 38mm Red retroreflective bands*

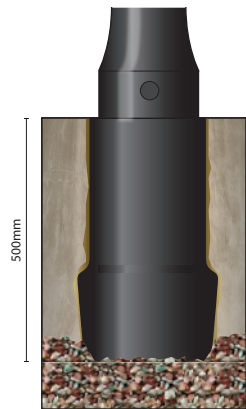
C. 1 x 125mm and/or 1 x 20mm and/or 1 x 38mm White retroreflective bands*

D. 1 x 125mm and/or 1 x 20mm and/or 1 x 38mm Amber retroreflective bands*

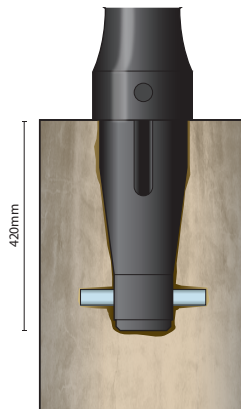
E. 1 x 125mm and/or 1 x 20mm and/or 1 x 38mm Gold decorative bands

125mm band is ideal for personalisation with your crest, logo or message.

*All of our retroreflective materials meet the requirements in table NA1 of the National Annex of BS EN 12899-1:2007 Fixed Vertical Road Signs.



Standard Socket



Below-Ground,
Extended Base



Blanking plate: for use with
socket

FIXING OPTIONS

Durapol Model: Standard Socket; Below-Ground, Extended Base.

Passively Safe Rebound Model: Below-Ground, Extended Base.



Highway Bollards



Jubilee™ Bollard

DESIGN FEATURES

- Available as a self-righting Rebound bollard or rigid Durapol®-material model.
- Never requires painting, unlike cast iron equivalents.
- Low maintenance and durable.
- A fraction of the weight of a metal bollard: can be installed by one person.
- Versatile banding options.
- Optional blanking plate to prevent potential trip hazard if the bollard is temporarily removed from its socket.

SPECIFICATIONS

Height above ground:	942mm
Maximum diameter:	190mm
Depth below ground:	
With socket:	500mm
With extended base:	420mm

*Rebound Impactapol model only.





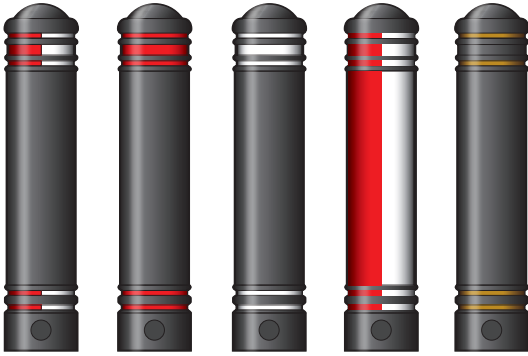
Black

MATERIAL & COLOUR OPTIONS

Bollard: Passively safe Impactapol® material or rigid Durapol material.

Socket: Durapol material

Durapol material and Passively Safe Rebound Impactapol material: Black.



A B C D E

BANDING OPTIONS

A. 4 x 12mm and/or 1 x 27mm Red/White retroreflective bands*

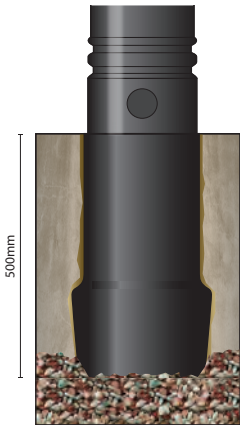
B. 4 x 12mm and/or 1 x 27mm Red retroreflective bands*

C. 4 x 12mm and/or 1 x 27mm White retroreflective bands*

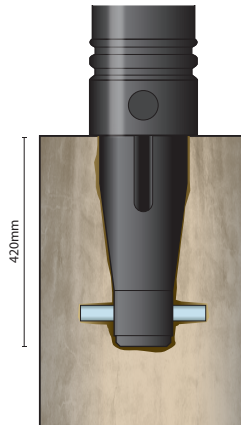
D. 1 x 580mm Red/White, Red, White or Amber body sleeve, 4 x 12mm and 1 x 27mm retroreflective bands*

E. 4 x 12mm Gold decorative bands.

*All of our retroreflective materials meet the requirements in table NA1 of the National Annex of BS EN 12899-1:2007 Fixed Vertical Road Signs.



Standard Socket



Below-Ground,
Extended Base



Blanking plate: for use with
socket

FIXING OPTIONS

Rigid Model: Standard Socket; Below-Ground, Extended Base.

Passively Safe Rebound Model: Below-Ground, Extended Base.



Highway Bollards

Sign-Carrying Bollards

Warn, inform and protect road users, cyclists and pedestrians with Glasdon sign-carrying bollards. Perfect for marking dedicated cycle paths and shared routes.

Rigid and rebound models are available to co-ordinate with our range of Neopolitan Bollards.



■ Infomaster™ Bollard

DESIGN FEATURES

- Rigid Durapol®-material construction.
- Optimum height for drivers.
- Low maintenance and durable.
- Narrow footprint takes up minimal space on the pavement.
- Double-sided sign face helps to reduce cost.
- Recessed sign face deters vandalism.
- Easily re-sited.

SPECIFICATIONS

Height above ground:	1196mm
Width:	370mm
Sign face dimensions:	308mm x 248mm
Depth below ground:	
Bolted down:	60mm
Adjustable-depth, concrete-in anchors:	320mm (max.)

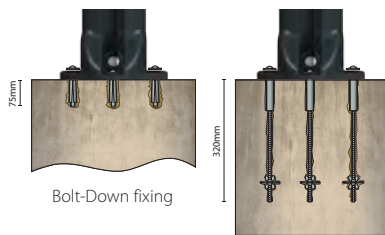


Black

Millstone

MATERIAL & COLOUR OPTIONS

Durapol material in Black or Millstone.



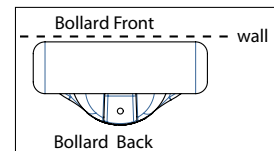
FIXING OPTIONS

Bolt-Down fixing; Adjustable-depth, concrete-in anchors.



OPTIONAL SIGN FACES

Available single or double sided, Infomaster can be used for a range of applications. Please see above for examples. Disabled Badge Holder sign face available as a standard sign price option. Other non-standard sign faces are available. To discuss your requirements, please call our sales office on 01253 600411.



SIGN FACE ORIENTATION

If Infomaster is to be sited against a building/wall, please specify that the sign face is for the back of the bollard.



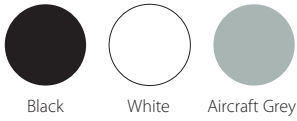
■ Ensign™ Bollard

DESIGN FEATURES

- Rigid Durapol®-material construction.
- Low maintenance and durable.
- Wide range of sign face options.
- Recessed areas for retroreflective or decorative banding.
- Optional blanking plate to prevent potential trip hazard if the bollard is temporarily removed from its socket.

SPECIFICATIONS

Height above ground:	1120mm
Socketed:	1206mm
Bolted Down:	338mm
Width:	200mm
Maximum stem diameter:	300mm
Sign face diameter:	
Depth below ground:	500mm
Socket:	420mm
Extended-base:	75mm
Bolt-down fixing:	320mm (max.)
Adjustable-depth, concrete-in anchors:	



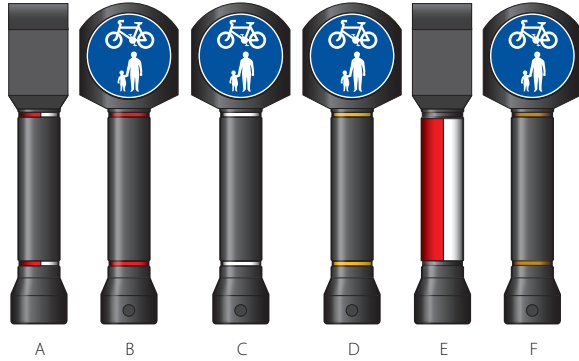
Black White Aircraft Grey

MATERIAL & COLOUR OPTIONS

Bollard: Rigid Durapol material.

Socket: Durapol material.

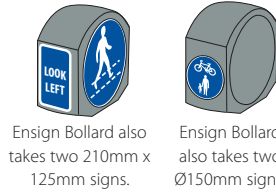
Durapol material: Black, White, Aircraft Grey.



BANDING OPTIONS

- A. 2 x 20mm Red/White retroreflective bands*
- B. 2 x 20mm Red retroreflective bands*
- C. 2 x 20mm White retroreflective bands*
- D. 2 x 20mm Amber retroreflective bands*
- E. 1 x 485mm Red/White, Red, White or Amber body sleeve
- F. 2 x 20mm Gold decorative bands

*All of our retroreflective materials meet the requirements in table NA1 of the National Annex of BS EN 12899-1:2007 Fixed Vertical Road Signs.

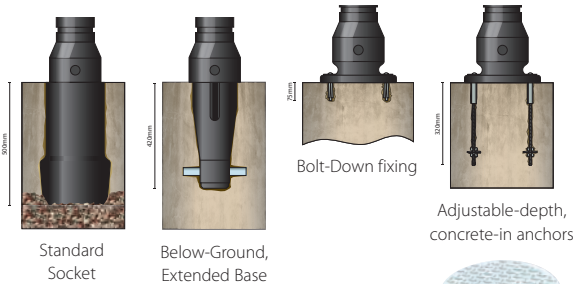


Ensign Bollard also takes two 210mm x 125mm signs.

Ensign Bollard also takes two Ø150mm signs.

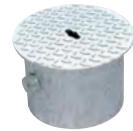


Sign-Carrying Bollards



FIXING OPTIONS

Standard Socket; Below-Ground, Extended Base; Bolt-Down fixing; Adjustable-depth, concrete-in anchors.



Blanking plate: for use with socket



STANDARD-PRICE SIGN OPTIONS

1. Max. Speed Limit (5mph)
2. Max. Speed Limit (10mph)
3. No Entry
4. No Left Turn
5. Cycles Prohibited
6. Turn Left or Right
7. Keep Left or Right
8. Cycle Route
9. Cycle/Pedestrians Only
10. Cycle/Pedestrians Only "Route Marked"
11. Cycle/Pedestrians Only "Route Marked" reversed

Sign-carrying bollards are also suitable for personalisation with safer routes to schools or your crest, logo or message. Please phone 01253 600411 for more information.



■ Mini-Ensign™ Bollard

DESIGN FEATURES

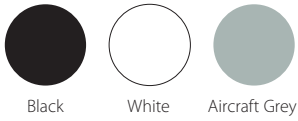
- Available as a self-righting Rebound bollard or rigid Durapol®-material model.
- Low maintenance and durable.
- Illuminated rebound model available.
- Wide range of sign face options.
- Recessed areas for retroreflective or decorative banding.
- Optional blanking plate to prevent potential trip hazard if the bollard is temporarily removed from its socket.

SPECIFICATIONS

Height above ground:	1010mm
Socketed:	1087mm
Bolted down:	200mm
Maximum diameter:	150mm
Sign face diameter:	
Depth below ground:	
Socket depth:	500mm
Extended base:	420mm
Bolt-down fixing:	75mm
Adjustable-depth, concrete-in anchors:	320mm (max.)
Sublite fixing:	226mm

*Rebound Impactapol model only.





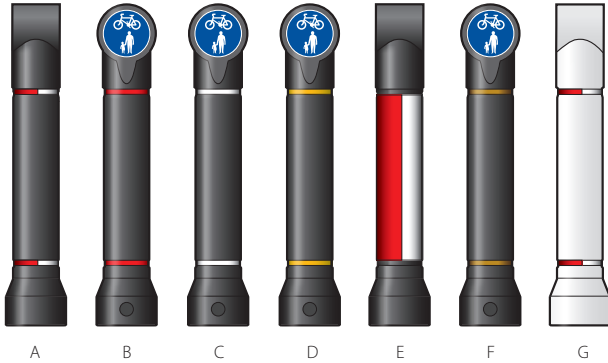
Black White Aircraft Grey

MATERIAL & COLOUR OPTIONS

Bollard: Passively safe Impactapol® material or rigid Durapol material.

Socket: Durapol material.

Passively Safe Rebound Impactapol material: Black, White. Illuminated rebound model is only available in White.



BANDING OPTIONS

A. 2 x 20mm Red/White retroreflective bands*

B. 2 x 20mm Red retroreflective bands*

C. 2 x 20mm White retroreflective bands*

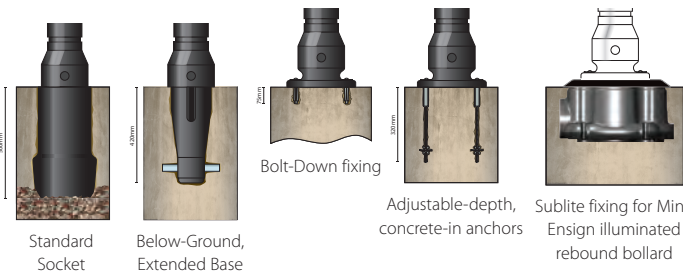
D. 2 x 20mm Amber retroreflective bands*

E. 1 x 485mm Red/White, Red, White or Amber body sleeve (3 x 150mm bands are available for use with Mini-Ensign Rebound models.)*

F. 2 x 20mm Gold decorative bands

G. 2 x 20mm Red/White translucent retroreflective bands (for use with Mini-Ensign illuminated rebound bollard)

*All of our retroreflective materials meet the requirements in table NA1 of the National Annex of BS EN 12899-1:2007 Fixed Vertical Road Signs.



FIXING OPTIONS

Rigid Model: Standard Socket; Below-Ground, Extended Base; Bolt-Down fixing; Adjustable-depth, concrete-in anchors.

Passively Safe Rebound Model: Below-Ground, Extended Base; Bolt-Down fixing; Adjustable-depth, concrete-in anchors; Sublite fixing (illuminated model).



Blanking plate: for use with socket

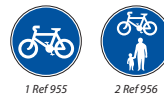


MINI-ENSIGN ILLUMINATED BOLLARD

White Mini-Ensign illuminated rebound bollard with Red/White translucent retroreflective bands.



Sign-Carrying Bollards



1 Ref 955



2 Ref 956



3 Ref 957



4 Ref 957 Reversed



3 Ref 965



STANDARD PRICE SIGN OPTIONS

1. Cycle Route
2. Cycle/Pedestrians Only
3. Cycle/Pedestrians Only "Route Marked"
4. Cycle/Pedestrians Only "Route Marked" reversed
5. End of Cycle Lane / Track or Route

Sign-carrying bollards are also suitable for personalisation with safer routes to schools or your crest, logo or message. Please phone 01253 600411 for more information.

Also see page 43, 58 & 59 for Glenwood™ range with sign-carrying options.



■ Cyclmaster™ Bollard

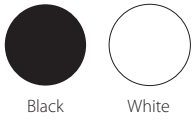
DESIGN FEATURES

- Available as a self-righting Rebound bollard or rigid Durapol® model.
- Low maintenance and durable.
- Wide range of standard vandal-resistant sign face options.
- Can display up to 6 sign faces on front and rear (3 per side).
- Fluorescent yellow retroreflective panels provide high visibility in daylight conditions and under headlights at night.
- Recessed areas for retroreflective panels.
- Socket fixing allows quick and easy bollard top replacement.
- Additional side and rear reflectors are available for increased visibility.

SPECIFICATIONS

Height above ground:	1000mm
Width:	216mm
Depth below ground:	
Socket depth:	306mm
Extended base:	256mm
Bolt-down fixing:	75mm
Adjustable-depth, concrete-in anchors:	320mm (max.)
Fixed-depth, concrete-in anchors:	250mm (max.)



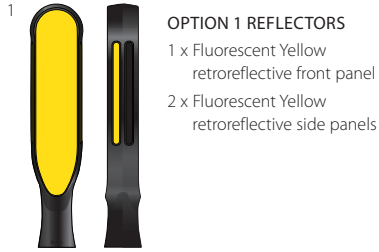


Black

White

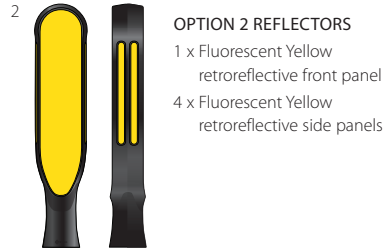
MATERIAL & COLOUR OPTIONS

Bollard: Rebound Impactapol® material or rigid Durapol material.
 Socket: Durapol material.
 Durapol material and Rebound Impactapol material: Black, White.



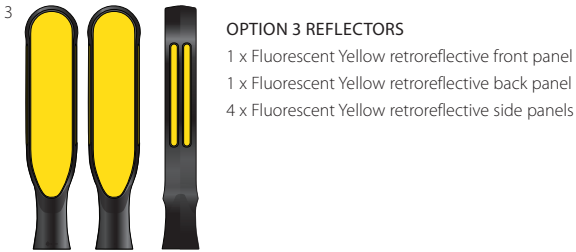
OPTION 1 REFLECTORS

- 1 x Fluorescent Yellow retroreflective front panel
- 2 x Fluorescent Yellow retroreflective side panels



OPTION 2 REFLECTORS

- 1 x Fluorescent Yellow retroreflective front panel
- 4 x Fluorescent Yellow retroreflective side panels

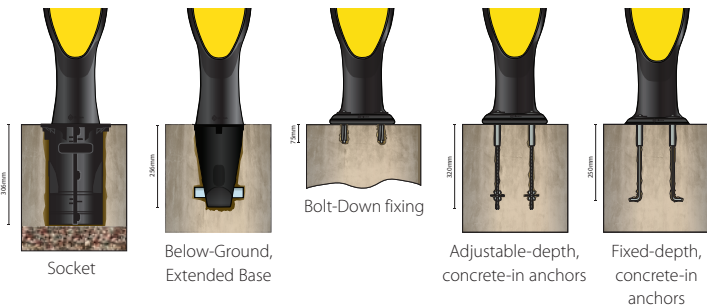


OPTION 3 REFLECTORS

- 1 x Fluorescent Yellow retroreflective front panel
- 1 x Fluorescent Yellow retroreflective back panel
- 4 x Fluorescent Yellow retroreflective side panels

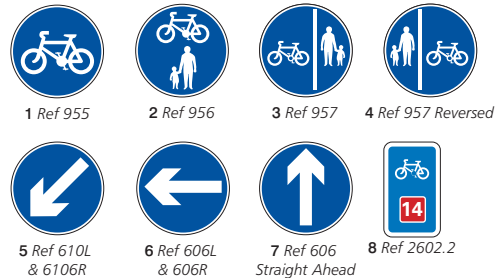
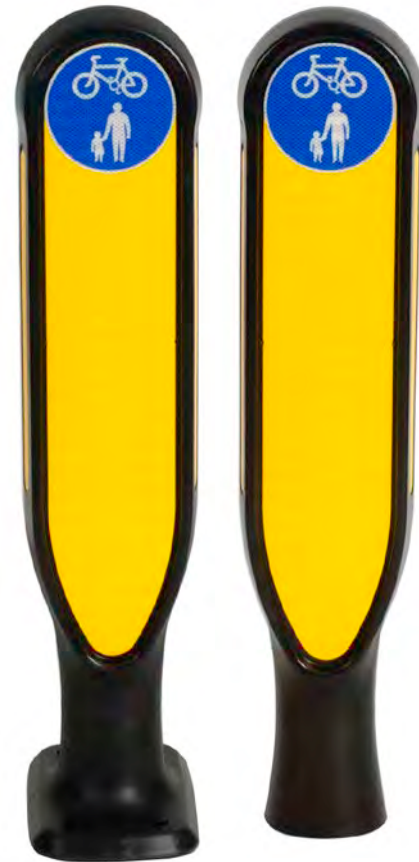
RETROREFLECTIVE PATCH OPTIONS

All of our retroreflective materials meet the requirements in table NA1 of the National Annex of BS EN 12899-1:2007 Fixed Vertical Road Signs.



FIXING OPTIONS

Socket; Below-Ground, Extended Base; Bolt-down fixing; Adjustable-depth, concrete-in anchors; Fixed-depth, concrete-in anchors.




STANDARD PRICE SIGN OPTIONS

Cyclenmaster bollard has the option to carry up to 3 signs on each side.

- 1. Cycle Route
 - 2. Cycle/Pedestrians Only
 - 3. Cycle/Pedestrians Only "Route Marked"
 - 4. Cycle/Pedestrians Only "Route Marked" reversed
 - 5. Keep Left or Right
 - 6. Turn Left or Right
 - 7. Straight Ahead
 - 8. Numbered Cycle Route
- Other non-standard sign faces are available. Please contact our sales office for information.

Recycled-Material Bollards



Enviropol® recycled plastic material is manufactured predominantly from post-consumer plastics. By balancing these uncontaminated recycled waste materials, the result is a remarkably versatile product with many applications and benefits. Enviropol material will not chip or rust, is easy to clean and never needs painting.

Buffer™ Bollard is manufactured from 100% recycled rubber tyres and is pressure moulded to create a strong, hard-wearing, weatherproof material.



■ Buffer™ Bollard

DESIGN FEATURES

- Available in two heights: 600mm or 900mm.
- Low maintenance and durable.
- Reinforcing tube allows bollard to be flexible yet resilient.
- Recessed area for retroreflective or decorative banding.
- Made from 100% recycled rubber tyres.

SPECIFICATIONS

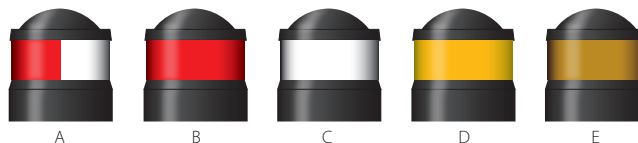
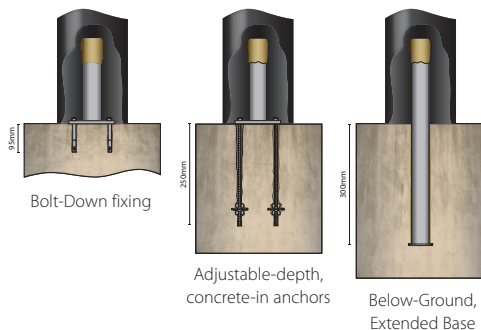
Height above ground:	600mm or 900mm
Maximum diameter:	248mm
Depth below ground:	
Extended base:	300mm
Bolted down:	95mm
Adjustable depth, concrete-in anchors:	250mm (max.)



Black

MATERIAL & COLOUR

Bollard: 100% recycled rubber car tyres in Black
Reinforcing tube: Galvanised mild steel.



BANDING OPTIONS

- 1 x 75mm Red/White retroreflective band*
- 1 x 75mm Red retroreflective band*
- 1 x 75mm White retroreflective band*
- 1 x 75mm Amber retroreflective band*
- 1 x 75mm Gold decorative band.

Ideal for personalisation with your crest, logo or message.

*All of our retroreflective materials meet the requirements in table NA1 of the National Annex of BS EN 12899-1:2007 Fixed Vertical Road Signs.

FIXING OPTIONS

Bolt-Down fixing; Adjustable depth, concrete-in anchors; Below-Ground, Extended Base.



■ Enviropol® Bollard

DESIGN FEATURES

- Low maintenance and durable.
- Available with a flat or round top.
- Recessed area for retroreflective or decorative banding.
- Made from 100% recycled material.
- Below-ground, extended base fixing.

SPECIFICATIONS

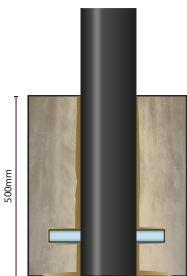
Height above ground: 1000mm
 Maximum diameter: 150mm
 Depth below ground: 500mm



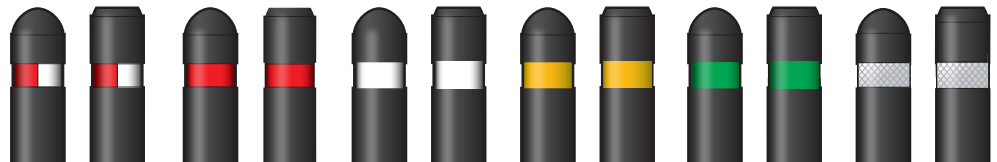
Black

MATERIAL & COLOUR OPTIONS

Bollard: 100% recycled Enviropol® material in Black.



Below-Ground,
Extended Base



BANDING OPTIONS

- A. 1 x 80mm Red/White retroreflective band*
 B. 1 x 80mm Red retroreflective band*
 C. 1 x 80mm White retroreflective band*

- D. 1 x 80mm Amber decorative band
 E. 1 x 80mm Green decorative band
 F. 1 x 80mm Silver decorative band

*All of our retroreflective materials meet the requirements in table NA1 of the National Annex of BS EN 12899-1:2007 Fixed Vertical Road Signs.

FIXING OPTIONS

Below-Ground, Extended Base



Active Travel Products

Active travel is a great way for people to reduce their carbon footprint whilst benefitting their physical fitness. We believe that cycle routes should be safe and visible, so we have developed products that will help make this a reality.

On the following pages, you will find our cycle lane defenders, waymarkers and cycle chicanes.



■ Endurokerb™ Cycle Lane Defender

DESIGN FEATURES

- Complies with DfT requirements.
- Modular system: can be configured to suit individual site requirements.
- Bolt-down fixings allow quick, easy installation for temporary and semi-permanent schemes.
- Angled side reflectors offer high visibility to pedestrians, cyclists and motorists.
- Safe manual handling weight for two people.
- Made from 100% recycled & recyclable material.
- Compatible with existing Glasdon bollards, giving additional signage and demarcation.
- Moulded-in 'cats' eyes.
- Kerb cover caps protect the fixing and prevent debris from clogging up the fixing points.
- Water drainage gap allows surface water to drain away.
- Connector kit for linking modules together and aligning them when fixing bollards onto them.
- Optional 'No Parking' signage for the raised kerb module.
- Optional resin-in installation provides stronger ground fixing.

SPECIFICATIONS

	Bollard End Kerb	Intermediate Kerb	Raised Intermediate Kerb	Bullnose Kerb
Endurokerb 100				
Weight	22.4kg	23.5kg	35.2kg	9.8kg
Length	700mm	1000mm	1000mm	500mm
Width	403mm	253mm	253mm	253mm
Height	100mm	100mm	223mm	100mm
Endurokerb 60				
Weight	13.2kg	9.5kg	5.1kg	
Length	700mm	1000mm	500mm	
Width	352mm	152mm	152mm	
Height	60mm	60mm	60mm	

Fixing Bolt Depth below ground:
Endurokerb 100: 170mm (min.)
Endurokerb 60: 120mm (min.)

MATERIALS

Kerb Module Material: Enduropol™ Material
Kerb Connector Material: 100% Recycled PVC
Fixing Plate Material: Stainless Steel

1 Choose Endurokerb sizes & modules:

Any combination of bollard kerb, bullnose kerb, intermediate kerb (all available as Endurokerb 60 and Endurokerb 100) and raised kerb (Endurokerb 100 only).

Endurokerb 100 Modules



Bollard End Kerb



Intermediate Kerb



Raised Intermediate Kerb



Bullnose Kerb

Endurokerb 60 Modules



Bollard End Kerb



Intermediate Kerb



Bullnose Kerb



Optional 'No Parking' signage for the raised kerb module.

2 Specify number of kerb connectors & ground fixings:

Endurokerb can be fixed onto tarmac or concrete with our ground fixings or with resin. If modules are to be sited continuously, choose the required number of connector kits (1 kit per pair of modules).



3 Specify any bollards and bollard graphics required:

Endurokerb can be equipped with existing Glasdon bollards for additional signage and demarcation. Choose from Neopolitan Delineator, Cyclenmaster, Neopolitan 150, Ensign, Mini-Ensign and Rebound Signmaster Ultra Compact. Fixings are available for securely attaching bollards to a module or across two modules.





■ Cyclmaster™ Waymarker

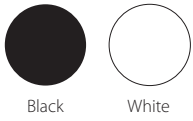
DESIGN FEATURES

- Available as a self-righting Rebound bollard or rigid Durapol® model.
- Low maintenance and durable.
- Wide range of standard vandal-resistant sign face options.
- Can display up to 6 sign faces on front and rear (3 per side).
- Fluorescent yellow retroreflective panels provide high visibility in daylight conditions and under headlights at night.
- Recessed areas for retroreflective panels.
- Socket fixing allows quick and easy bollard top replacement.
- Additional side and rear reflectors are available for increased visibility.

SPECIFICATIONS

Height above ground:	1000mm
Width:	216mm
Depth below ground:	
Socket depth:	306mm
Extended base:	256mm
Bolt-down fixing:	75mm
Adjustable-depth, concrete-in anchors:	320mm (max.)
Fixed-depth, concrete-in anchors:	250mm (max.)



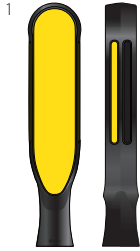


Black

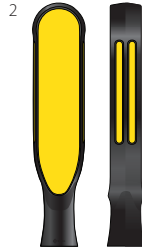
White

MATERIAL & COLOUR OPTIONS

Bollard: Rebound Impactapol® material or rigid Durapol material.
 Socket: Durapol material.
 Durapol material and Rebound Impactapol material: Black, White.



OPTION 1 REFLECTORS
 1 x Fluorescent Yellow retroreflective front panel
 2 x Fluorescent Yellow retroreflective side panels



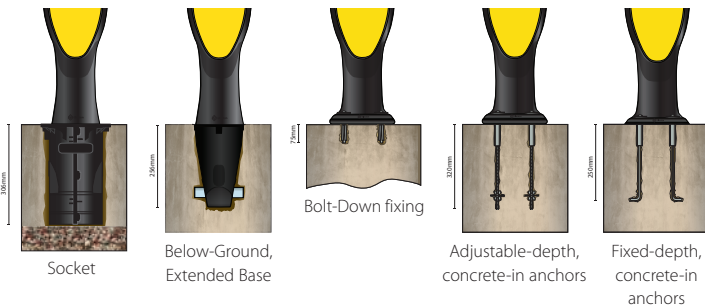
OPTION 2 REFLECTORS
 1 x Fluorescent Yellow retroreflective front panel
 4 x Fluorescent Yellow retroreflective side panels



OPTION 3 REFLECTORS
 1 x Fluorescent Yellow retroreflective front panel
 1 x Fluorescent Yellow retroreflective back panel
 4 x Fluorescent Yellow retroreflective side panels

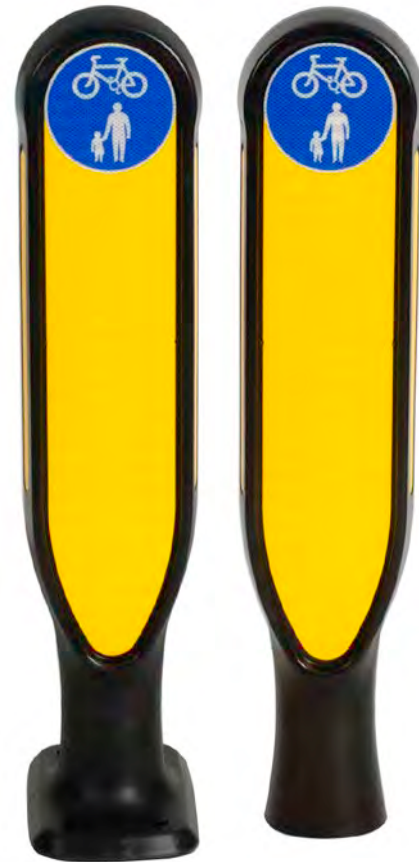
RETROREFLECTIVE PATCH OPTIONS

All of our retroreflective materials meet the requirements in table NA1 of the National Annex of BS EN 12899-1:2007 Fixed Vertical Road Signs.



FIXING OPTIONS

Socket; Below-Ground, Extended Base; Bolt-down fixing; Adjustable-depth, concrete-in anchors; Fixed-depth, concrete-in anchors.



1 Ref 955



2 Ref 956



3 Ref 957



4 Ref 957 Reversed



5 Ref 610L & 6106R



6 Ref 606L & 606R



7 Ref 606 Straight Ahead



8 Ref 2602.2

STANDARD PRICE SIGN OPTIONS

Cyclenmaster bollard has the option to carry up to 3 signs on each side.

- 1. Cycle Route
 - 2. Cycle/Pedestrians Only
 - 3. Cycle/Pedestrians Only "Route Marked"
 - 4. Cycle/Pedestrians Only "Route Marked" reversed
 - 5. Keep Left or Right
 - 6. Turn Left or Right
 - 7. Straight Ahead
 - 8. Numbered Cycle Route
- Other non-standard sign faces are available. Please contact our sales office for information.



■ Mini-Ensign™ Waymarker

DESIGN FEATURES

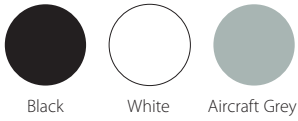
- Available as a self-righting Rebound bollard or rigid Durapol®-material model.
- Low maintenance and durable.
- Illuminated rebound model available.
- Wide range of sign face options.
- Recessed areas for retroreflective or decorative banding.
- Optional blanking plate to prevent potential trip hazard if the bollard is temporarily removed from its socket.

SPECIFICATIONS

Height above ground:	1010mm
Socketed:	1087mm
Bolted down:	200mm
Maximum diameter:	150mm
Sign face diameter:	
Depth below ground:	
Socket depth:	500mm
Extended base:	420mm
Bolt-down fixing:	75mm
Adjustable-depth, concrete-in anchors:	320mm (max.)
Sublite fixing:	226mm

*Rebound Impactapol model only.





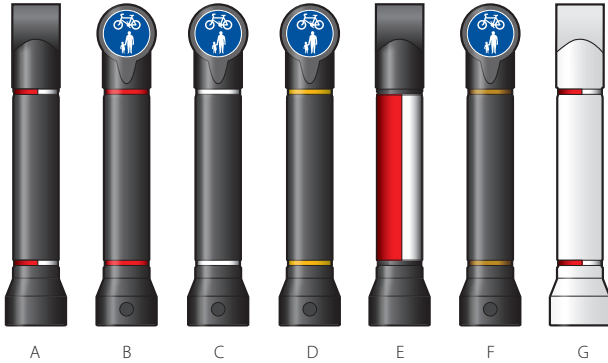
Black White Aircraft Grey

MATERIAL & COLOUR OPTIONS

Bollard: Passively safe Impactapol® material or rigid Durapol material.

Socket: Durapol material.

Passively Safe Rebound Impactapol material: Black, White. Illuminated rebound model is only available in White.

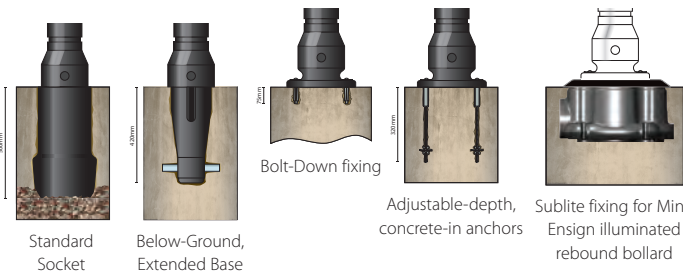


BANDING OPTIONS

- A. 2 x 20mm Red/White retroreflective bands*
- B. 2 x 20mm Red retroreflective bands*
- C. 2 x 20mm White retroreflective bands*
- D. 2 x 20mm Amber retroreflective bands*
- E. 1 x 485mm Red/White, Red, White or Amber body sleeve (3 x 150mm bands are available for use with Mini-Ensign Rebound models.)*
- F. 2 x 20mm Gold decorative bands

- G. 2 x 20mm Red/White translucent retroreflective bands (for use with Mini-Ensign illuminated rebound bollard)

*All of our retroreflective materials meet the requirements in table NA1 of the National Annex of BS EN 12899-1:2007 Fixed Vertical Road Signs.



FIXING OPTIONS

Rigid Model: Standard Socket; Below-Ground, Extended Base; Bolt-Down fixing; Adjustable-depth, concrete-in anchors.

Passively Safe Rebound Model: Below-Ground, Extended Base; Bolt-Down fixing; Adjustable-depth, concrete-in anchors; Sublite fixing (illuminated model).

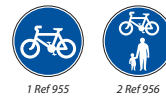


Blanking plate: for use with socket



MINI-ENSIGN ILLUMINATED BOLLARD

White Mini-Ensign illuminated rebound bollard with Red/White translucent retroreflective bands.



1 Ref 955



2 Ref 956



3 Ref 957



4 Ref 957 Reversed



3 Ref 965



STANDARD PRICE SIGN OPTIONS

1. Cycle Route
2. Cycle/Pedestrians Only
3. Cycle/Pedestrians Only "Route Marked"
4. Cycle/Pedestrians Only "Route Marked" reversed
5. End of Cycle Lane / Track or Route

Sign-carrying bollards are also suitable for personalisation with safer routes to schools or your crest, logo or message. Please phone 01253 600411 for more information.



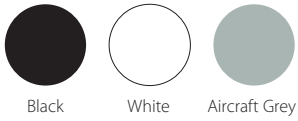
■ Ensign™ Waymarker

DESIGN FEATURES

- Rigid Durapol®-material construction.
- Low maintenance and durable.
- Wide range of sign face options.
- Recessed areas for retroreflective or decorative banding.
- Optional blanking plate to prevent potential trip hazard if the bollard is temporarily removed from its socket.

SPECIFICATIONS

Height above ground:	1120mm
Socketed:	1206mm
Bolted Down:	338mm
Width:	200mm
Maximum stem diameter:	300mm
Sign face diameter:	
Depth below ground:	500mm
Socket:	420mm
Extended-base:	75mm
Bolt-down fixing:	320mm (max.)
Adjustable-depth, concrete-in anchors:	



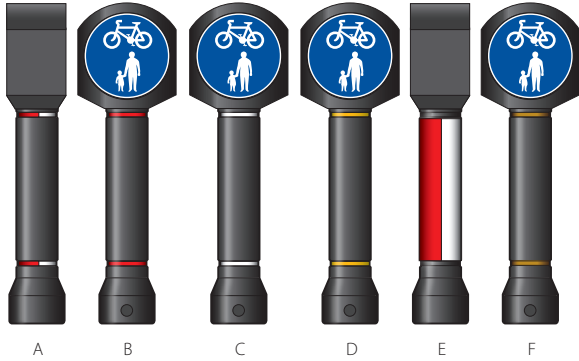
Black White Aircraft Grey

MATERIAL & COLOUR OPTIONS

Bollard: Rigid Durapol material.

Socket: Durapol material.

Durapol material: Black, White, Aircraft Grey.



BANDING OPTIONS

A. 2 x 20mm Red/White retroreflective bands*

B. 2 x 20mm Red retroreflective bands*

C. 2 x 20mm White retroreflective bands*

D. 2 x 20mm Amber retroreflective bands*

E. 1 x 485mm Red/White, Red, White or Amber body sleeve

F. 2 x 20mm Gold decorative bands

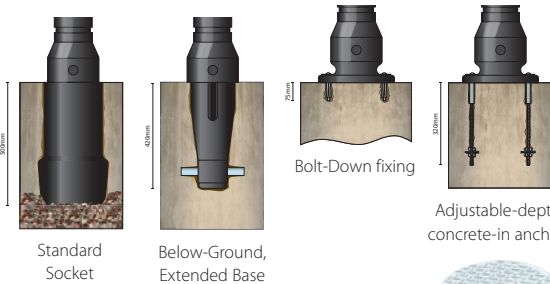
*All of our retroreflective materials meet the requirements in table NA1 of the National Annex of BS EN 12899-1:2007 Fixed Vertical Road Signs.



Ensign Bollard also takes two 210mm x 125mm signs.

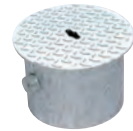


Ensign Bollard also takes two Ø150mm signs.



FIXING OPTIONS

Standard Socket; Below-Ground, Extended Base; Bolt-Down fixing; Adjustable-depth, concrete-in anchors.



Blanking plate: for use with socket



STANDARD-PRICE SIGN OPTIONS

1. Max. Speed Limit (5mph)
2. Max. Speed Limit (10mph)
3. No Entry
4. No Left Turn
5. Cycles Prohibited
6. Turn Left or Right
7. Keep Left or Right
8. Cycle Route
9. Cycle/Pedestrians Only
10. Cycle/Pedestrians Only "Route Marked"
11. Cycle/Pedestrians Only "Route Marked" reversed



Neopolitan™ Delineator Post

DESIGN FEATURES

- Manufactured from Reflexapol™ material for excellent rebound performance and passive safety.
- Suitable for either bolt-down or socket installations: only one type of post needs to be stocked.
- Low maintenance and durable.
- Choice of retroreflective banding options to suit different applications.
- 600mm retroreflective banding option conforms to TSRGD requirements.
- Compact Square Base: base requires minimal floor space for installation and is easy to install.
- Removable solution when coupled with LockFast™ Mini Socket and Quick-Release Socket Adaptor: key operated to prevent unauthorised removal or tampering.
- Passively safe: compliant to BS EN 12767. Passed at 100km/h, achieving 100-NE-A-NR.

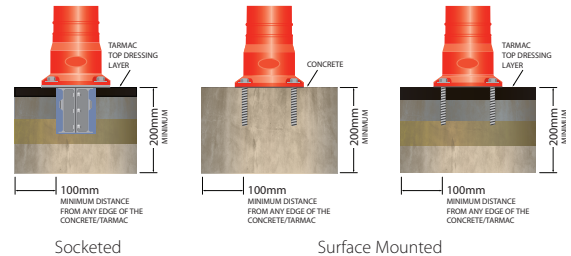
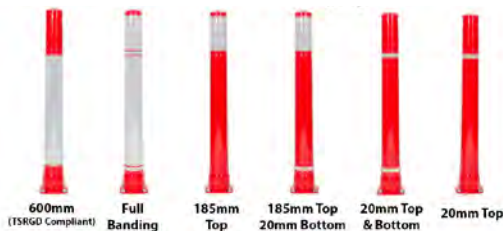
SPECIFICATIONS

Height above ground: 1000mm

MATERIAL AND COLOUR OPTIONS

Body Material: Reflexapol™ Material
Colours: Red or Black

BANDING OPTIONS



FIXING OPTIONS

Socketed
Surface Mounted

EASY REMOVAL FROM SOCKET IN 3 STEPS



1. Insert key

2. Lift the post

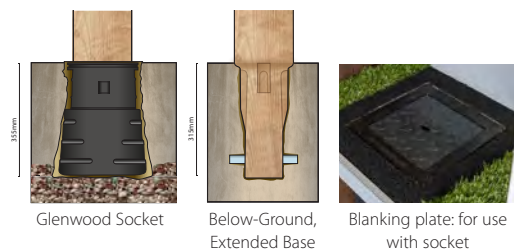
3. Cover socket with optional cap



Glenwood™ 170 Post & Glenwood™ 170 Signhead Post

DESIGN FEATURES

- Two models available: Glenwood 170 Post and Glenwood 170 Signhead Post for displaying 150mm signs on all four sides.
- Low maintenance and durable.
- Manufactured from Everwood™ Material, which has a unique realistic timber grain effect.
- Lightweight and easy to install.
- Recessed area for retroreflective banding.
- 150mm vandal-resistant sign faces.
- Glenwood socket fixing option to facilitate access for maintenance vehicles.
- Optional blanking plate for use with socket.



FIXING OPTIONS

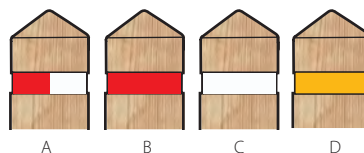
Glenwood Socket
Below-Ground, Extended Base

SPECIFICATIONS

Height above ground:	
Glenwood 170 Post:	1000mm
Glenwood 170 Signhead Post:	1093mm
Depth below ground:	
Socketed:	355mm
Extended base:	315mm

MATERIALS AND COLOURS

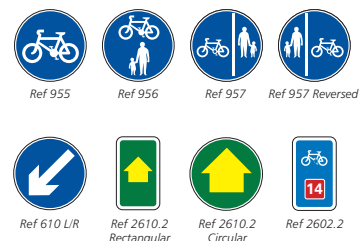
Post: Everwood material in Light Oak, Dark Oak.
Glenwood socket: Durapol® material.



BANDING OPTIONS

- 1 x 37mm Red/White retroreflective band*
- 1 x 37mm Red retroreflective band*
- 1 x 37mm White retroreflective band*
- 1 x 37mm Amber retroreflective band*

*All of our retroreflective materials meet the requirements in table NA1 of the National Annex of BS EN 12899-1:2007 Fixed Vertical Road Signs.



OPTIONAL STANDARD SIGN FACES*

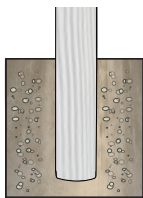
*Other non-standard sign faces are available. Please contact our sales office for information.



■ Glasdon Gateway Chicane / Waymarker

DESIGN FEATURES

- A low-maintenance, long-lasting alternative to traditional wooden sign carriers or chicanes.
- Hundreds of combinations of designs with various colours, slats, widths and heights available. Contact us for more information.



Below-Ground,
Extended Base



Surface Mount Kit

SPECIFICATIONS

Height: 1800mm (1300mm above ground) or 2300mm (1800mm above ground).

Width: 960mm, 1500mm, 2000mm.

Post Width: 160mm

MATERIALS AND COLOUR OPTIONS

Posts/slats: Everwood™ Material in White, Light Oak or Dark Oak.

Fixing bolts: Stainless steel.

Surface mount bracket: 5mm Galvanised mild steel

FIXING OPTIONS

Below-Ground, Extended Base, Surface Mount Kit



Road Safety Signs

Glasdon chevron road signs and boards help prevent accidents and cut costs by outperforming traditional metal boards and post-mounted chevron signs.

They are available in a range of designs & configurations from single-chevron signs for sharp bends on rural roads, to highly reflective chevron boards for use on roundabouts.



■ Chevroflex Ultra™ Sign System

DESIGN FEATURES

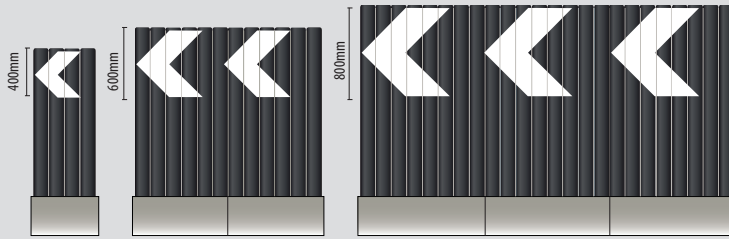
- Certified passively safe to Performance Standard 100-NE-B.
- Highly visible wall effect: offers clear indication of a bend or hazard in the road.
- Easy-to-install socket for quick and simple sign replacement.
- Low maintenance and durable.
- Three standard sizes of Chevron: 400mm, 600mm or 800mm.
- Modular socket design allows for unlimited number of chevrons.
- Available as left bend, right bend, a roundabout unit with a statute-compliant 606 sign face, a sight screen or a countdown marker.
- Available with or without high-visibility border.
- AutoCAD model specifications available for all products.

MATERIALS AND COLOUR OPTIONS

Uprights: Black Impactaflex™ material
 Socket: Galvanised steel
 Hi-Vis surround: Yellow or Yellow/Green

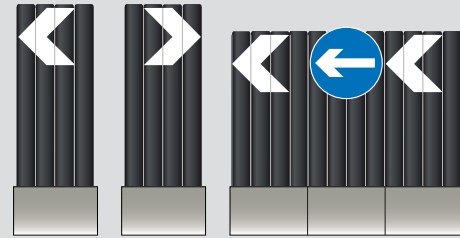


1 Specify the size and number of chevrons.



2 Specify the configuration of your chevrons:

Left bend, right bend, roundabout (with statute-compliant 606 sign face)



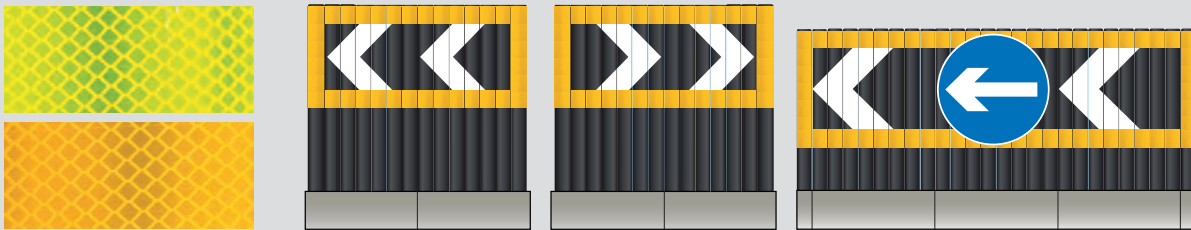
Left bend

Right bend

Roundabout (with statute-compliant 606 sign face)

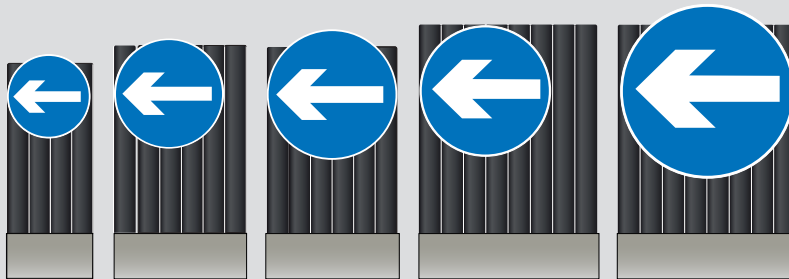
3 Specify if high-visibility border is needed:

Chevroflex Ultra with high-visibility surround is available with two different coloured borders: yellow/green and yellow. Made in Avery Dennison fluorescent Diamond Grade material, it is highly visible and reflective from a distance.*



*All retroreflective materials supplied by Glasdon UK are as recommended in table NA1 of the National Annex of BS EN 12899-1:2007 Fixed Vertical Road Signs.

4 For roundabouts, choose 606 directional arrows.



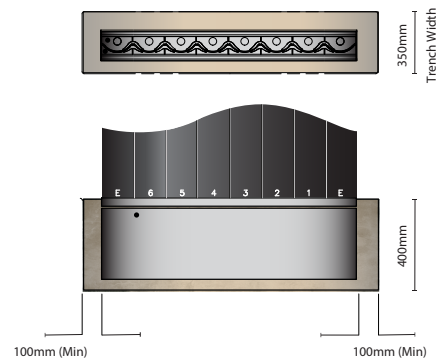
600mm 606 for use on 400mm Chevroflex

750mm 606 for use on 600mm Chevroflex

900mm 606 for use on 600mm Chevroflex

900mm 606 for use on 800mm Chevroflex

1200mm 606 for use on 800mm Chevroflex



FIXING

The trench for the sockets should be 400mm deep, 350mm wide and 200mm longer than the overall length of the Chevroflex Ultra Sign.



Orbital™ Chevron Sign

DESIGN FEATURES

- 1W LED power consumption reduces energy costs and carbon footprint. UMSUG code: 42 0001 0000 100.
- Illuminated 606 Sign Face meets TSRGD requirements of illuminating Ref 606 'Turn Left' sign face with low energy costs.
- Safe 24V operation above ground: 230V main supply is stepped down within the main control circuit to protect vehicle occupants and emergency services in the event of an accident.
- The 24V LED unit has a minimum lifespan of 100,000 hours (approx. 11.4 years) if operated 24/7 or longer if operated with a CMS device.
- Socket fixing option allows quick and easy sign replacement after any impact.
- Weather resistant, protected from water ingress, and low maintenance.
- Cable, Snatch Plug and Socket allow safe disconnection and easy replacement if the sign carrier is damaged.
- The Subsafe™ textured lid has a low profile when installed and its anti-slip texture gives added safety.
- CMS compatible: moulded-in mounting suitable for use with multiple models of remote monitoring equipment.

SPECIFICATIONS

Chevron Board Size:	400mm
Depth:	150mm
Height Above Ground:	1770mm
Width:	1200mm
Depth Below Ground:	500mm

MATERIALS & COLOUR OPTIONS

Body: Durapol® in Black or Aircraft Grey.
Orbital LockFast Socket: Durapol
Socket Lock: Galvanised Steel



Orbital™ Chevron Sign



Orbital™ Chevron Sign



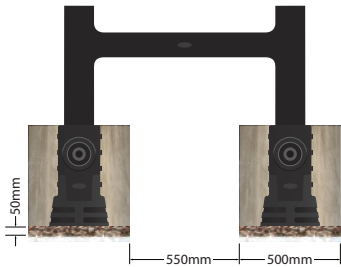
ORBITAL LOCKFAST™ SOCKET

In the event of road traffic accident damage, the Orbital Lockfast socket enables quick and easy replacement. This minimises time spent at the roadside, improving safety of roadside workers and reducing traffic management time, cost and traffic disruption.

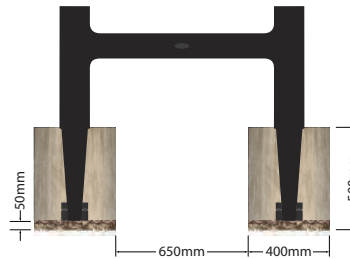


Subsafe™ Installation Box

INSTALLATION OPTIONS



Orbital LockFast Socket



Below-Ground, Extended Base
(Concrete-in or backfill installation)





Apex™ Chevron Sign

DESIGN FEATURES

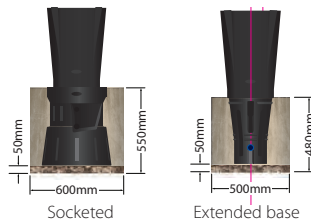
- Small footprint: ideal for narrow verges.
- The Apex LockFast™ socket allows quick sign replacement, improving safety for roadside workers and minimising traffic disruption.
- Durapol® material body.
- Low maintenance and durable.
- Non-Twist Signage Supports maintain sign face alignment even after being hit.
- Fixed Sign prevents the sign from slipping down the post, helping to lower maintenance costs.
- Socketed model has achieved an NE classification in accordance with BS EN12767.
- Optional High-Visibility Border: allows greater visibility where needed.

SPECIFICATIONS

Chevron Size:	600mm	
High-Vis Yellow Border:	75mm	
	Without High-Vis Border	With High-Vis Border
Width:	900mm	1050mm
Depth:	300mm	300mm
Height Above Ground:	1,600mm	1,675mm
Depth below ground:		
With Socket:	500mm	500mm
With Extended Base:	430mm	430mm

MATERIALS

Body: Durapol®
 Socket: Durapol
 Socket Wedge: Galvanised Steel
 Sign: Dibond Material



FIXING OPTIONS

Socketed, Extended Base

EASY REMOVAL FROM SOCKET IN 4 STEPS



1. Insert key

2. Lift plug

3. Twist anticlockwise

4. Lift

Road Safety

Vergeposts

Glasdon hazard marker posts are ideal delineators for highlighting road layouts in urban traffic environments and bends on rural or trunk roads.

Manufactured with high-quality polymer materials, these marker posts increase road safety while providing protection for grass verges.



■ Vergemaster RX™ Marker Post

DESIGN FEATURES

- Passively safe Reflexapol™-material construction.
- Extended base fixing model successfully tested to Performance Standard 100-NE-A by TRL.
- Low maintenance and durable.
- Two arced microprismatic reflectors increase reflective performance and viewing angles for clear delineation by day and night.
- Multiple fixing options available.

SPECIFICATIONS

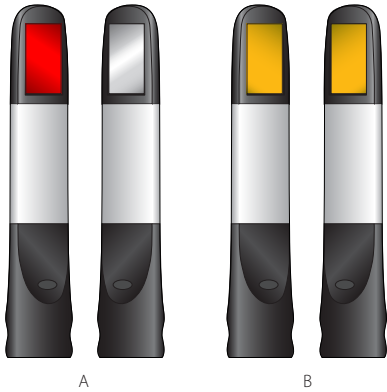
Height above ground:	920mm
With extended base/fixing stake:	886mm
Bolted down:	886mm
Maximum diameter:	167mm
Depth below ground:	350mm
With extended base:	350mm
With fixing stake:	523mm
Bolt-down fixing:	100mm
Adjustable-depth, concrete-in anchors:	320mm (max.)

*Below-Ground Extended Base model only.



MATERIAL OPTIONS

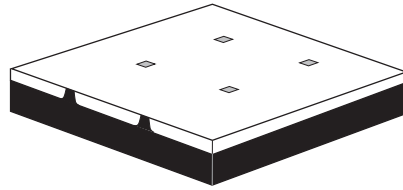
Marker post: Reflexapol™ material
Fixing stake: Pressure-treated timber
Bolt-Down Collar: Stainless Steel



VERGEMASTER REFLECTOR OPTIONS

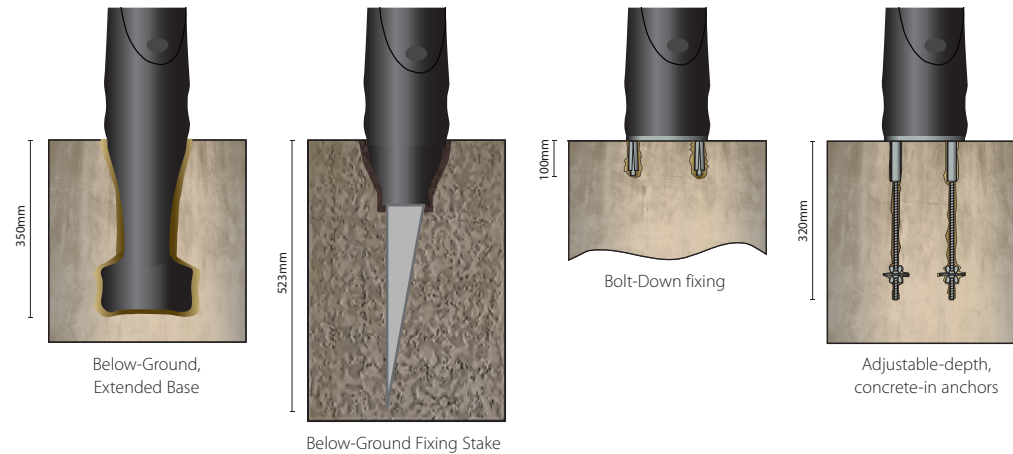
- A. Red & White
- B. Amber & Amber

*All of our retroreflective materials meet the requirements in table NA1 of the National Annex of BS EN 12899-1:2007 Fixed Vertical Road Signs.



MOULDED-IN WHITE BAND

The post's white band is fused on with heat and compression.



FIXING OPTIONS

Below-Ground, Extended Base; Below-Ground Fixing Stake; Bolt-Down fixing; Adjustable depth, concrete-in anchors

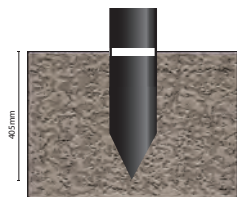




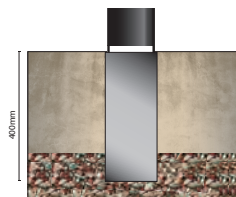
Flexmaster™ Marker Post

DESIGN FEATURES

- Manufactured from highly durable Ultraflex™ material that will withstand multiple vehicle impacts.
- White band and reflector provide maximum visibility.
- Standard fixing can be installed in soft ground without the need for excavation. Advanced fixing provides a socket that allows the post to be easily removed and reinstated without ground works, improving safety for road workers.
- Offers excellent versatility for low-maintenance, high-visibility signage.



Standard Fixing Option



Advanced Fixing Option (socketed)

FIXING OPTIONS

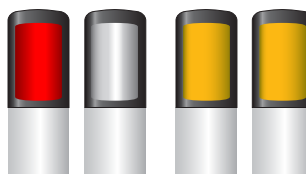
- Standard Fixing Option
- Advanced Fixing Option (socketed)

SPECIFICATIONS

Height above ground:	905mm
Height above ground (layby variant):	600mm, 500mm or 480mm
Width:	150mm
Depth below ground (standard fixing):	405mm
Depth below ground (advanced fixing):	400mm

MATERIAL OPTIONS

- Marker post: Ultraflex™ material.
- Advanced socket fixing: Galvanised steel.



Red & White

Amber & Amber



FLEXMASTER REFLECTOR OPTIONS

*All of our retroreflective materials meet the requirements in table NA1 of the National Annex of BS EN 12899-1:2007 Fixed Vertical Road Signs.

OTHER APPLICATIONS

The versatility of the Flexmaster system offers excellent versatility for low-maintenance, high-visibility signage.

To discuss your requirements, please telephone our highways safety sales team on 01253 600411.



Optional Flexmaster Installation Tool



Hazardmaster™ Marker Post

DESIGN FEATURES

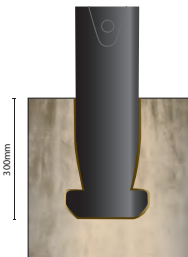
- Passively safe Impactapol® material construction for the highest risk areas.
- Successfully tested to Performance Standard 100-NE-A by TRL.
- Ideal for use on hard surfaces.
- Substantial, robust marker post.
- Low maintenance and durable.
- Two large retroreflectors provide maximum visibility.

SPECIFICATIONS

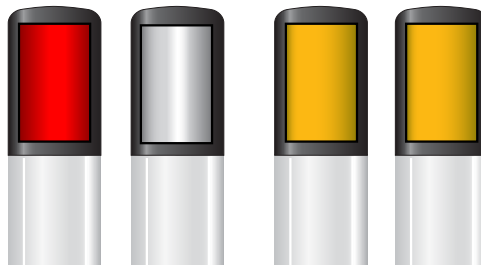
Height above ground: 910mm
 Maximum diameter: 150mm
 Depth below ground: 300mm

MATERIAL

Marker post: Impactapol material



Below-Ground,
Extended Base



Red & White

Amber & Amber

HAZARDMASTER REFLECTOR OPTIONS

*All of our retroreflective materials meet the requirements in table NA1 of the National Annex of BS EN 12899-1:2007 Fixed Vertical Road Signs.

FIXING

Below-Ground, Extended Base.





■ Edgeline™ Bollard

DESIGN FEATURES

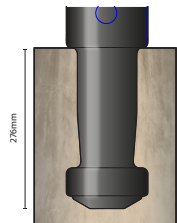
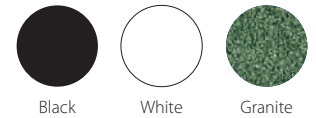
- Rigid Durapol® construction.
- Low maintenance and durable.
- Recessed area for decorative or retroreflective banding (due to the low height of the bollard, this is not approved for highways use).
- Co-ordinates with Neopolitan™ Bollards.

SPECIFICATIONS

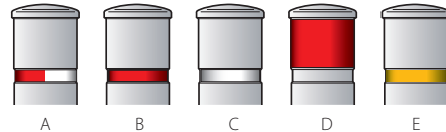
Height above ground: 510mm
 Maximum diameter: 140mm
 Depth below ground: 276mm

MATERIAL AND COLOUR OPTIONS

Durapol material in Black, White or Granite.



Below-Ground,
Extended Base



BANDING OPTIONS

- A. 1 x 19mm Red/White retroreflective band.#
- B. 1 x 19mm Red retroreflective band.#
- C. 1 x 19mm White retroreflective band.#
- D. 1 x 98mm Red or White retroreflective band.#
- E. 1 x 19mm Gold decorative band.

FIXING

Below-Ground, Extended Base.

#All of our retroreflective materials meet the requirements in table NA1 of the National Annex of BS EN 12899-1:2007 Fixed Vertical Road Signs.





Neopolitan™ Delineator Post

DESIGN FEATURES

- Manufactured from Reflexapol™ material for excellent rebound performance and passive safety.
- Suitable for either bolt-down or socket installations: only one type of post needs to be stocked.
- Low maintenance and durable.
- Choice of retroreflective banding options to suit different applications.
- 600mm retroreflective banding option conforms to TSRGD requirements.
- Compact Square Base: base requires minimal floor space for installation and is easy to install.
- Removable solution when coupled with LockFast™ Mini Socket and Quick-Release Socket Adaptor: key operated to prevent unauthorised removal or tampering.
- Passively safe: compliant to BS EN 12767. Passed at 100km/h, achieving 100-NE-A-NR.

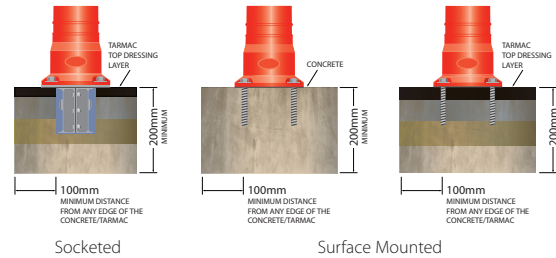
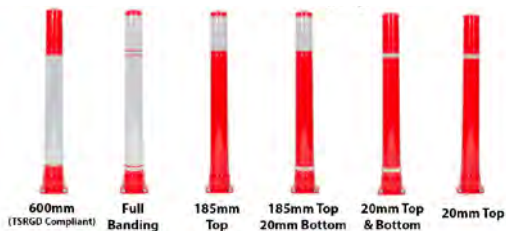
SPECIFICATIONS

Height above ground: 1000mm

MATERIAL AND COLOUR OPTIONS

Body Material: Reflexapol™ Material
Colours: Red or Black

BANDING OPTIONS



FIXING OPTIONS

- Socketed
- Surface Mounted

EASY REMOVAL FROM SOCKET IN 3 STEPS



1. Insert key

2. Lift the post

3. Cover socket with optional cap



■ Glenwood™ 150 Post

DESIGN FEATURES

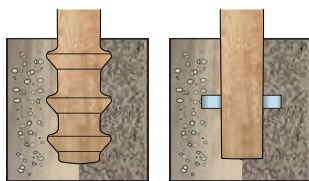
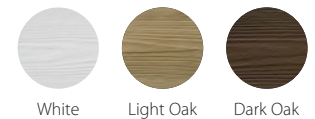
- Manufactured from Everwood™ material, which has a unique realistic timber grain effect.
- Low maintenance and durable.
- Lightweight and easy to install.
- Moulded-in saw grooves enable the post to be easily cut down to the desired height. Height options are 1000mm, 830mm and 500mm.
- Recessed area for retroreflective banding.
- 100mm vandal-resistant sign faces.

SPECIFICATIONS

Height above ground: 500mm, 830mm or 1000mm
 Width: 150mm
 Depth below ground: 450mm to 650mm

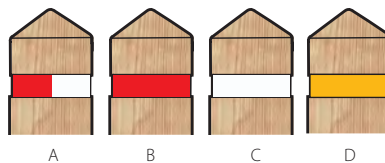
MATERIAL AND COLOURS

Post: Everwood material in White, Light Oak or Dark Oak.



Below-Ground,
Extended Base

Below-Ground,
Extended Base with
Fixing peg



BANDING OPTIONS

- 1 x 37mm Red/White retroreflective band*
- 1 x 37mm Red retroreflective band*
- 1 x 37mm White retroreflective band*
- 1 x 37mm Amber retroreflective band*

*All of our retroreflective materials meet the requirements in table NA1 of the National Annex of BS EN 12899-1:2007 Fixed Vertical Road Signs.



Ref 955



Ref 956



Ref 957



Ref 957 Reversed

OPTIONAL STANDARD SIGN FACES*

*Other non-standard sign faces are available. Please contact our sales office for information.

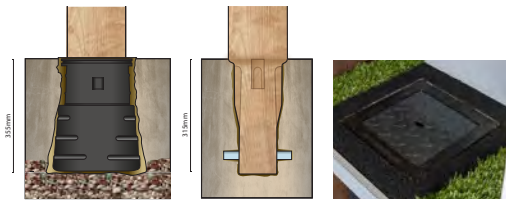




Glenwood™ 170 Post & Glenwood™ 170 Signhead Post

DESIGN FEATURES

- Two models available: Glenwood 170 Post and Glenwood 170 Signhead Post for displaying 150mm signs on all four sides.
- Low maintenance and durable.
- Manufactured from Everwood™ Material, which has a unique realistic timber grain effect.
- Lightweight and easy to install.
- Recessed area for retroreflective banding.
- 150mm vandal-resistant sign faces.
- Glenwood socket fixing option to facilitate access for maintenance vehicles.
- Optional blanking plate for use with socket.

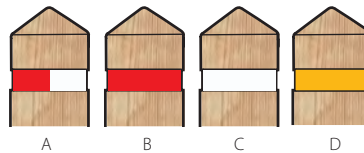


FIXING OPTIONS

Glenwood Socket
Below-Ground, Extended Base

SPECIFICATIONS

Height above ground:	
Glenwood 170 Post:	1000mm
Glenwood 170 Signhead Post:	1093mm
Width:	170mm
Depth below ground:	
Socketed:	355mm
Extended base:	315mm



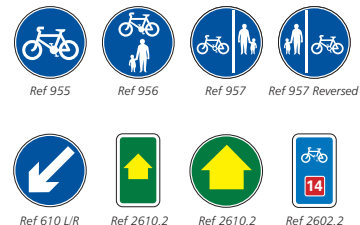
BANDING OPTIONS

- 1 x 37mm Red/White retroreflective band*
- 1 x 37mm Red retroreflective band*
- 1 x 37mm White retroreflective band*
- 1 x 37mm Amber retroreflective band*

*All of our retroreflective materials meet the requirements in table NA1 of the National Annex of BS EN 12899-1:2007 Fixed Vertical Road Signs.

MATERIALS AND COLOURS

Post: Everwood material in Light Oak, Dark Oak.
Glenwood socket: Durapol® material.



OPTIONAL STANDARD SIGN FACES*

*Other non-standard sign faces are available. Please contact our sales office for information.

Gateway Sign Carriers

Unlike recycled PVC units on the market, Glasdon gateway sign carriers are integrally strong and have no need for dangerous steel reinforcing poles.

We've been working with county & parish councils and highway contractors all over the UK to supply personalised entrance features for villages, communities and parish councils.



■ Glasdon Gateway

DESIGN FEATURES

- A low-maintenance, long-lasting alternative to traditional wooden sign carriers.
- Hundreds of combinations of designs with various colours, slats, widths and heights available. Contact us for more information.
- Factory-fitted village name signs service available for use with Glasdon Gateway.
- Optional 600mm speed limit signs are available for the Glasdon Gateway. Signs include National Speed Limit, 30mph, 40mph and 50mph.

SPECIFICATIONS

Height:	1800mm (1300mm above ground) or 2300mm (1800mm above ground).
Ornate model height:	2421mm
Width:	960mm, 1500mm, 2000mm.
Ornate model width:	1690mm
Post Width:	160mm

MATERIALS AND COLOUR OPTIONS

Posts/slats: Everwood™ Material in White, Light Oak or Dark Oak.
 Fixing bolts: Stainless steel.
 Surface mount bracket: 5mm Galvanised mild steel

Gateway Sign Carriers



1 Specify the colour:

Light Oak or Dark Oak for a wood effect, or white for maximum visibility.



White



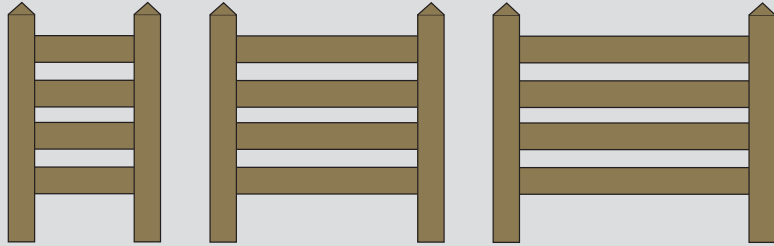
Light Oak



Dark Oak

2 Specify the width:

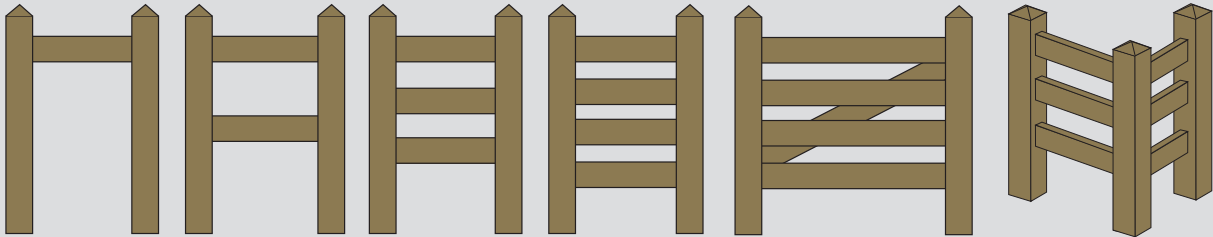
Standard options: 960mm, 1500mm or 2000mm.



Width: 960mm, 1500mm or 2000mm
Ornate model width: 1690mm

3 Specify how many slats:

We can supply Glasdon Gateway with between one and four slats. An optional crossbar is available for a traditional farm gate appearance.



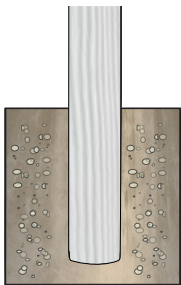
Number of Slats: Available with 1, 2, 3 or 4 slats.

Crossbar: Creates a traditional farm gate appearance.

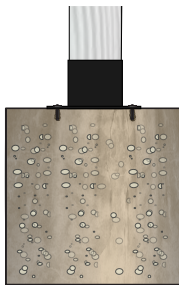
L-Shaped: For a striking visual impact.

4 Choose a height: Standard options are 1800mm (1300mm above ground) or 2300mm (1800mm above ground)

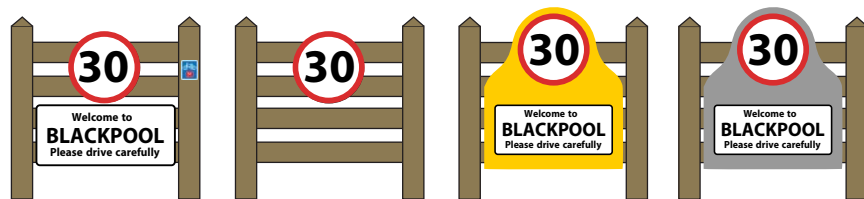
Ornate model height: 2421mm



Below-Ground,
Extended Base



Surface Mount Kit



EXAMPLE SIGNAGE OPTIONS

Glasdon Gateway is supplied flat-packed with comprehensive instructions for easy assembly. Attaching your existing signage to the product is a simple job, or we can supply a sign made to your specification. If you're not sure about the dimensions of Gateway you need, we can recommend the right size based on the measurements of the sign you want to display. Please contact us for more information.

FIXING OPTIONS

Below-Ground, Extended Base

Surface Mount Kit



■ Orbital™ Gateway Sign

DESIGN FEATURES

- Space for up to 3 personalised signs.
- Weather resistant and low maintenance.
- The sign arrives fully assembled and is quick and easy to install.
- 500mm installation depth allows for strong and secure installation.

SPECIFICATIONS

Depth:	150mm
Height Above Ground:	1770mm
Width:	1200mm
Depth Below Ground:	500mm

MATERIALS & COLOUR OPTIONS

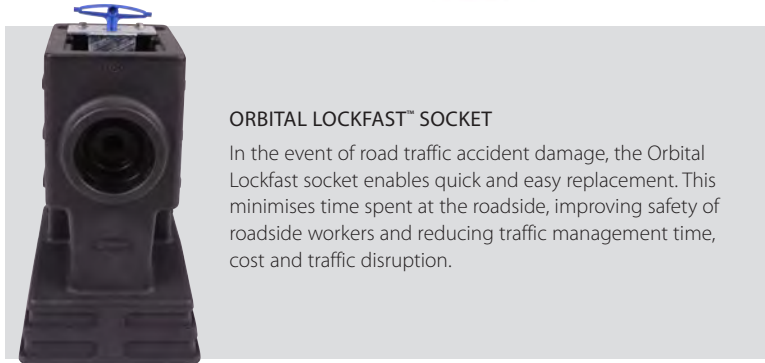
Body: Durapol® in Black or White.
Orbital LockFast Socket: Durapol
Socket Lock: Galvanised Steel
Sign: Dibond Material



Orbital™ Gateway with Optional Advertising Signage



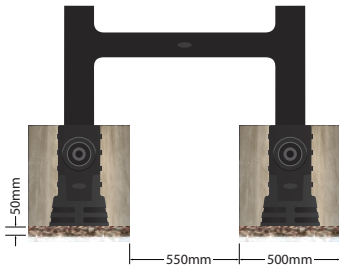
Orbital™ Chevron Sign



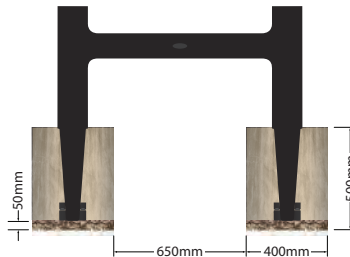
ORBITAL LOCKFAST™ SOCKET

In the event of road traffic accident damage, the Orbital Lockfast socket enables quick and easy replacement. This minimises time spent at the roadside, improving safety of roadside workers and reducing traffic management time, cost and traffic disruption.

INSTALLATION OPTIONS



Orbital LockFast Socket



Below-Ground, Extended Base
(Concrete-in or backfill installation)



Fixing Options & Materials

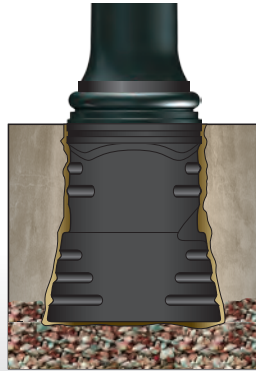
Our selection of eight different fixing methods ensures that there will be one that is right for your application.

Our highways safety products are made from a range of high-performance materials and undergo stringent checks to ensure durability and best value.

Glasdon has ISO9001:2015 and ISO4001:2015 accreditation, which underlines our commitment to quality.

LockFast™ Socket System

The LockFast™ Socket System is the first Glasdon socket to be compatible with passively safe Impactapol® material bollards. The square shape prevents twisting during an impact and is easy to pave around. Bollards are quick and easy to remove and replace, making them ideal for permanent, semi-permanent and temporary applications. The socket will absorb the impact of most collisions, leaving the surrounding surfaces undamaged.



SAFETY NOTICE:

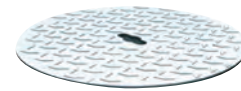
If the removal of a bollard creates a safety hazard, we strongly recommend the purchase of a socket blanking plate, which features a slip-resistant finish.

NEW Glenwood™ Socket System also available for the Glenwood™ 170 Post & Glenwood™ 170 Signhead Post.

Locking Blanking Plate



Temporary Blanking Plate



Moulded-in product code aids correct bollard top replacement.

Square shape prevents twisting during a drive-through collision and is easy to pave around.

Moulded-in arrow and logo aids correct installation.

Made from Durapol® material: a proven corrosion-resistant and impact-resistant material that is fully recyclable after its long service life.

Anchor points help to prevent uprooting.

Flat base: much easier to level.



Galvanised mild steel blanking plate removes trip hazard and aids installation.



Only 350mm deep for quicker installation.

The first Glasdon socketed bollard to be proven passively safe to Performance Standard 100-NE-A.



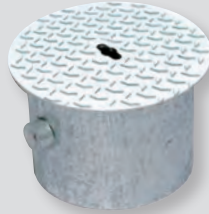
PASSED
at 100 Km/h
(62mph) ✓

Standard Socket System

Glasdon socketed bollards are quick and easy to remove and replace, making them ideal for permanent, semi-permanent and temporary applications. The socket will absorb the impact of most collisions, leaving the surrounding surfaces undamaged.

SAFETY NOTICE:

If the removal of a bollard creates a safety hazard, we strongly recommend purchasing a socket blanking cap, which features a slip-resistant finish.

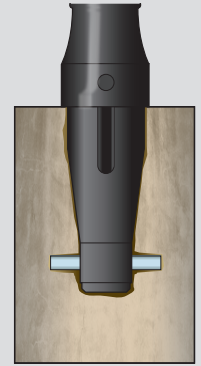


Locking Blanking Plate



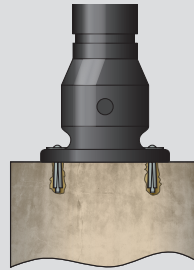
Below-Ground, Extended Base

The extended base and horizontal ground fixing peg of the bollard are secured in concrete for permanent installation.



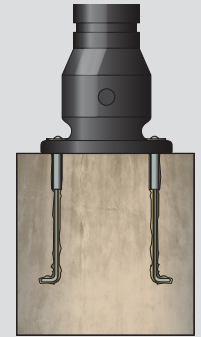
Bolt-Down Fixing

Bolt-down fixings allow a bollard to be installed in under 8 minutes on existing concrete sub-surfaces. This provides a permanent fixing point with a flush ground finish that eliminates trip hazards if the bollard is removed. The bolt-down fixing is ideal for use where a below-ground installation is restricted or impossible.



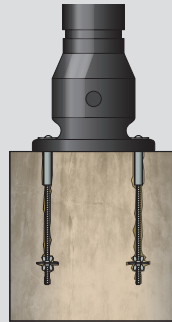
Fixed-Depth, Concrete-in Anchors

The two-piece, fixed-depth, concrete-in anchors are suitable for a fresh concrete subsurface, providing additional anchorage and a permanent fixing point. This fixing is available with Durapol- and Impactapol-material bollards and requires a minimum depth of 250mm.



Adjustable-Depth, Concrete-in Anchors

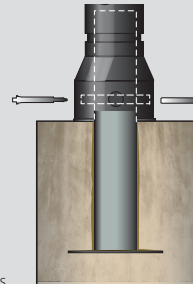
For additional anchorage and to provide a permanent fixing point, use bolt-down fixings with adjustable-depth, concrete-in anchors. Adjustable-depth, concrete-in anchors can be used anywhere a fresh concrete subsurface can be laid, creating a flush ground finish that eliminates trip hazards if the bollard is removed.



Bridgemaster™ Fixing

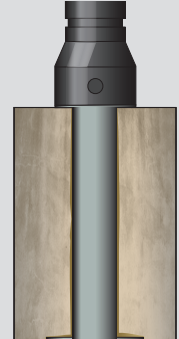
Ideal for the transition between true land and bridge decking, this fixing can be used where there is insufficient depth for a socketed bollard or when the surface/area is unsuitable for bolting down.

A galvanised steel reinforcing tube extends 311mm below ground level, providing an integral root for superb strength and anchorage.



Guardzman™ Anti-Ram-Raid Bollard Fixing

A galvanised steel reinforcing tube extends 745mm below ground level, providing an integral root for superb strength and impact resistance. This tube is then filled with concrete. The bollard top is securely attached with hidden coupling bolts. Guardzman bollards are an excellent security feature and have been shown to stop an unladen van dead at speeds of up to 30mph.



■ Sockets and Demonstrations

We strongly recommend choosing Glasdon socket systems for your bollards. They improve safety for road workers by allowing damaged products to be removed and replaced in minutes. This can significantly reduce maintenance costs for councils by eliminating the need for specialist equipment or expensive traffic management.

The below sequence shows how easy it is to remove and replace a bollard that uses our socket systems:



1. Insert bollard key

2. Rotate Bollard anticlockwise

3. Bollard can be removed easily

4. Empty socket is a potential trip hazard

5. Blanking plate removes hazard

■ Arrange a Consultation

If you would like to see the benefits of our sockets and have a demonstration of how they work, we can visit you or schedule a video call. Arrange a no obligation consultation or site visit today.

■ Visit a Showroom

Alternatively, you can book a visit to our London exhibition centre or the Glasdon Discovery Centre at our head office in Blackpool.

Our purpose-built showrooms are available for you to have a closer look at the extensive Glasdon product range, and our experts will be there to demonstrate any products of interest.

To request your visit to a Glasdon showroom, please call us or complete our **online form**.



■ Exhibitions

We regularly showcase our products at the country's leading industry exhibitions and conferences. To see our upcoming exhibitions, visit our **website**.

■ High-Performance Materials

Glasdon bollards are manufactured from a range of high-performance materials and undergo stringent checks to ensure durability and best value. Glasdon has ISO 9001:2015 and ISO 14001:2015 accreditation, underlining our commitment to quality.

Durapol® Material

A strong, lightweight material that offers a number of advantages over traditional materials. Durapol material is self coloured, which means it will never need painting and scratches will not show. The material is totally corrosion free, so it will not chip or rust and is vandal resistant.



Durapol Material



Other Material

Passively Safe Impactapol® Material

A flexible material with excellent recovery performance, meaning it will return to its original shape following a drive-through collision. Impactapol material products reduce maintenance budgets in vulnerable locations by continuing to perform to statutory requirements even after repeated impacts. Impactapol material offers all the additional benefits of Durapol material: it is self coloured and totally corrosion free.



Impactapol Material



Other Material

Impactaflex™ material has been specially developed by Glasdon to provide new Chevreflex Ultra with superior rigidity and resilience, and offers exceptional recovery performance after a drive-through collision. *(Chevreflex Ultra: see pages 46-47)*

Reflexapol™ polymer is specially engineered for long service life in exposed locations. It has good recovery properties and will never need painting.

(Vergemaster RX: see pages 52-53. Neopolitan Delineator Post: see pages 42 and 57)

Ultraflex™ polymer is formulated to withstand harsh environments and has enhanced flexibility and extensibility properties, offering good recovery performance after vehicular impact. *(Flexmaster: see page 54)*

Enviropol® recycled plastic material is manufactured predominantly from post-consumer plastics. By balancing these uncontaminated recycled waste materials, the result is a remarkably versatile product with many applications and benefits. Enviropol material will not chip or rust, is easy to clean and never needs painting. *(Enviropol: see page 32)*

100%
Recycled
Material

Buffer™ Bollard is manufactured from 100% recycled rubber tyres and is pressure moulded to create a strong, hard-wearing, weatherproof material. *(Buffer: see page 31)*

100%
Recycled
Material

Everwood™ material is a realistic timber grain polymer that requires minimal maintenance. Everwood material is vandal and weather resistant and will not rot, warp or crack. *(Glenwood and Glasdon Gateway: see pages 43-44, 58-59 and 61-63)*

Enduropol™ is an engineering-grade, recycled-rubber compound manufactured from 100% recycled rubber tyres and pressure moulded to create strong, hard-wearing and impact-resistant material. *(Endurokerb: see pages 34 and 35)*

100%
Recycled
Material

Photo Gallery

Our customers often approach us to help solve unique problems, and we are always happy to help. Have a look at some of our road safety products at work.











NEW

Neopolitan™ Delineator Post

- Compliant to BS EN 12767 : 2019 - Passed at 100km/h, achieving 100-NE-A-NR.
- Choice of retroreflective banding options to suit different applications.
- Manufactured from Reflexapol® material for excellent rebound performance.

[Find out more...](#)



Complete a Quote, Live Chat with Us or Sign Up to Our Newsletter and We Will Plant a Tree!

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[Trees Planted: 24215 | Carbon Offset: 72 Tonnes](#)



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Glasdon produce a wide range of indoor and

Grit Bins / Grit Spreaders



Our range of Grit Bins, Broadcast / Drop Grit



Free Delivery

*Terms and Conditions Apply



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