



Glasdon
Fifty Years
of Progress



NEW



NEW



Bollards

For All Locations



NEW



www.glasdon.com

Glasdon bollards for effective site

PAGE NO	BOLLARD	MATERIALS PAGE 6	FIXINGS PAGES 4-5					
			REMOVABLE			PERMANENT		
			STANDARD BOLT-DOWN FIXING	CONCRETE-IN ANCHOR (ADJUSTABLE DEPTH)	BELOW-GROUND SOCKET SYSTEM	LOCKFAST SOCKET SYSTEM	BELOW GROUND GUARDSMAN ANTI-RAM RAID 	BELOW-GROUND EXTENDED BASE
6	NEW Glasdon Manchester™	Durapol® Impactapol®	- -	- -	- -	✓ ✓	- -	✓ ✓
7	Neopolitan™ 20	Durapol Impactapol	✓* -	✓* -	✓ -	- -	✓ -	- ✓
8	NEW Advanced Neopolitan™ 150	Impactapol	-	-	-	✓	-	✓
9	Neopolitan™ 150	Durapol Impactapol	✓ ✓	- -	- -	- -	✓ -	- -
10	Infomaster™	Durapol	✓	✓	-	-	-	-
10	Neopolitan Signhead™	Durapol Impactapol	✓ ✓	✓ ✓	✓ -	- -	✓ -	- ✓
11	Jubilee™	Durapol Impactapol	- -	- -	✓ -	- -	- -	- ✓
12	Mini Ensign™	Durapol Impactapol	✓ ✓	✓ ✓	✓ -	- -	✓ -	- ✓
13	Ensign™	Durapol	✓	✓	✓	-	✓	-
14	Admiral™	Durapol Impactapol	- -	- -	✓ -	- -	- -	- ✓
15	Victory™	Durapol Impactapol	- -	- -	✓ -	- -	- -	- ✓
15	Clifton™	Durapol	-	-	✓	-	-	-
16	Edgemaster™ 20	Durapol	-	-	-	-	-	✓
16	Edgeline™	Durapol	-	-	-	-	-	✓
17	Buffer™	100% Recycled Resilient Rubber 	✓*	✓*	-	-	-	✓*
17	Enviro-pol®	Enviropol® 100% Recycled Plastic 	-	-	-	-	-	✓*
18	Rebound Signmaster™	Impactapol	✓	✓	-	-	-	-
19	Centrum™	Grade 316 Stainless Steel	-	-	-	-	-	✓*

(* Fixings may differ from illustrations shown)

Durapol™ material is a polymer formulated to withstand extremes of temperature and is impact-tested in our Quality Assurance Laboratory as part of our BS EN ISO 9001:2000 test procedure. Durapol will not chip or rust, is easy to clean and never needs painting.



ol® material is a polymer specially developed to provide increased flexibility and extensibility properties and good recovery performance after vehicular impact. Impactapol has abrasion resistance, the material will not chip or rust and never needs painting.



Guardsman™ anti-ram raid is a reinforced, site protection bollard fixing for improved 24-hour security.

e management

CHAIN LINKING	COLOURS	BANDING/SIGNS						SIGN FACE
		RETROREFLECTIVE				DECORATIVE		
		RED/WHITE SPLIT, RED OR WHITE		YELLOW		PERSONALISED	COLOURED BAND	
		BANDS	BODY SLEEVE	BANDS	BODY SLEEVE			
-	●	✓	-	✓	-	-	✓	-
-	●	✓	-	✓	-	-	✓	-
✓	● ● ● ● ● ● ● ●	✓	✓	✓	✓	-	✓	-
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✓	● ● ● ● ● ● ● ●	✓	✓	✓	✓	✓	✓	-
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✓	● ● ● ● ● ● ● ●	✓	-	✓	-	✓	✓	-
-	● ●	✓	-	✓	-	✓	✓	-
-	● ●	✓	-	✓	-	✓	✓	-
-	● ● ● ● ● ● ● ●	-	-	-	-	-	-	✓
-	○ Stainless Steel	✓ [†]	-	✓	-	-	✓	-

Please telephone our sales office for details.



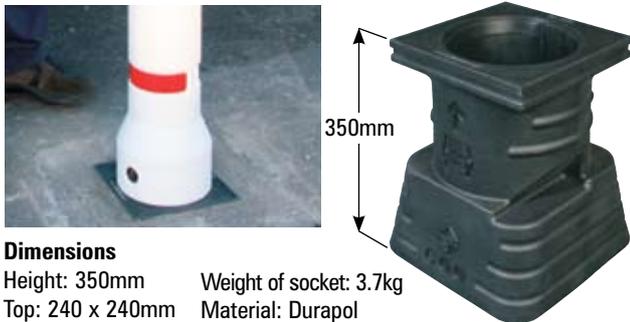
CHAIN LINKING
Rigid Durapol Bollards only.
Two lengths of chain are available: 1200mm and 2500mm
Weights:
Standard 1200mm:.....0.6 kg
Standard 2500mm:.....1.25 kg
Spiked 1200mm:.....1.0 kg
Spiked 2500mm:.....2.1 kg



Fixing Options

1 LockFast™ Socket System

The new LockFast Socket allows quick and easy bollard top replacement, reducing the need for road closure or costly reinstatement. The square shape prevents twisting during a drive-through and is easy to pave around.



Dimensions

Height: 350mm Weight of socket: 3.7kg
 Top: 240 x 240mm Material: Durapol
 Base: 305 x 305mm

SAFETY NOTICE

If the removal of a bollard creates a safety hazard, we strongly recommend purchase of a socket blanking cap.



2 Standard Bolt-Down Fixing (onto existing concrete foundations)

Bolt-down fixings allow a bollard to be quickly and easily installed on surfaces without the need for groundwork. Ideal for use where bolt-down is possible.

Dimensions

Depth below ground: 75mm.

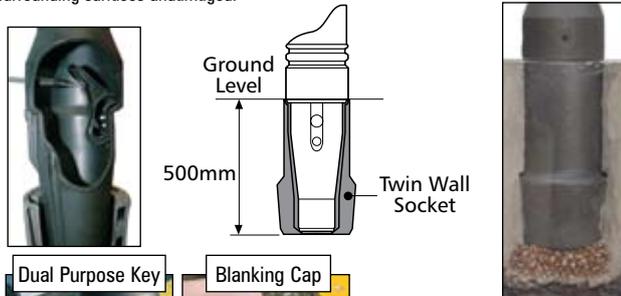


Can be installed in less than 8 minutes



3 Below-Ground Socket System

Socketed bollards are easy to remove and replace, allowing for permanent, semi-permanent or temporary applications. The socket will absorb the impact of most collisions, leaving the surrounding surfaces undamaged.



Dual Purpose Key

Blanking Cap



Dimensions

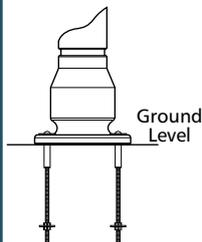
Depth below ground: 500mm.
 Weight of socket: 3.8kg

SAFETY NOTICE

If the removal of a bollard creates a safety hazard, we strongly recommend purchase of a socket blanking cap.

4 Concrete-in Anchor (adjustable depth)

Offers additional stability and provides a permanent fixing and reinstated without the need for additional groundwork anywhere a fresh concrete sub-surface can be laid.



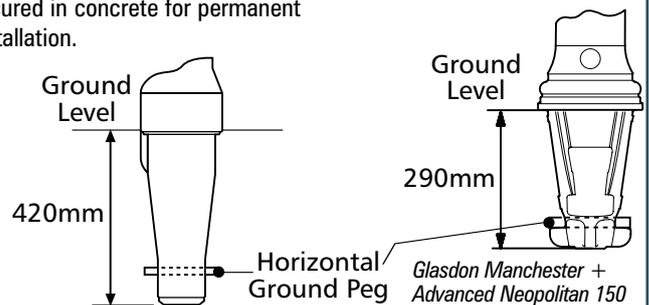
Dimensions

Depth below ground: 250mm.



5 Below-Ground Extended Base

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



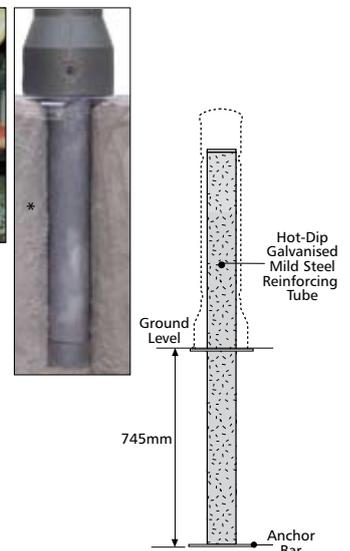
6 Below-Ground Guardsman™ Anti-Ram Raid

A galvanised steel reinforcing tube is sited 745mm below ground for superb strength and impact resistance. The bollard top is secured with hidden coupling bolts.



Dimensions

Total height of reinforcing tube: 1505mm.
 Depth below ground: 745mm.
 Diameter of reinforcing tube: 115mm.
 Wall thickness of reinforcing tube: 5mm.
 Weight of reinforcing tube: 21.3kg.



(Bollard and fixings may differ from illustrations shown.)

High Performance Materials

Glasdon products are manufactured from high performance materials and undergo stringent quality checks to ensure durability and best value. We have accreditation with ISO 9001:2000, underlining our commitment to provide quality products.

Throughout this catalogue reference is made to the following materials:

Durapol® material is a polymer formulated to withstand extremes of temperature and is impact-tested in our Quality Assurance Laboratory as part of our BS EN ISO 9001:2000 test procedure. Durapol material will not chip or rust, is easy to clean and never needs painting.

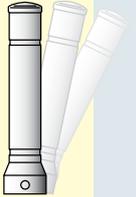
- **Robust Material** - Will not chip or rust.
- **Low Maintenance** - No painting required.
- **Colour Moulded Right Through** - Scratches will not show.
- **Tough, Durable Construction** - Corrosion-free and vandal resistant.



(Glasdon Manchester Bollard see page 6, Neopolitan 20 Bollard see page 7, Infomaster see page 10, Neopolitan 150 Bollard see page 10, Neopolitan Signhead Bollard see page 10, Jubilee Bollard see page 11, Mini Ensign Bollard see page 12, Ensign Bollard see page 13, Admiral Bollard see page 14, Victory Bollard see page 15, Clifton Bollard see page 15, Edgemaster 20 Bollard see page 16, Edgeliner Bollard see page 16).

Passively Safe Impactapol®

material is a polymer specially developed with enhanced flexibility and extensibility properties offering good recovery performance after vehicular impact. Impactapol material has abrasion resistance, the material will not chip or rust and never needs painting.



- **Ideal for Vulnerable Sites** - Where passive safety is imperative.
- **Reduce Maintenance Budgets** - Due to good recovery performance after repeated impacts.
- **Flexibility & Good Recovery Performance** - As Impactapol material remains flexible down to -40°C.
- **Low Maintenance** - As no painting required and scratches will not show.



(Glasdon Manchester Bollard Rebound see page 6, Neopolitan 20 Bollard Rebound Model see page 7, Advanced Neopolitan 150 Bollard see page 8, Neopolitan 150 Bollard Rebound Model see page 9, Neopolitan Signhead Bollard Rebound Model see page 10, Jubilee Bollard Rebound Model see page 11, Mini Ensign Bollard Rebound Model see page 12, Admiral Bollard Rebound Model see page 14, Victory Bollard Rebound Model see page 15, Rebound Signmaster Bollard see page 18).

N.B. Impactapol material bollards are only available with selected fixing options.

Enviroapol® 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. Enviroapol material will not chip or rust, is easy to clean and never needs painting.

(Enviroapol Bollards see page 17)



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

(Buffer Bollards see page 17)



Grade 316 Stainless Steel is a premium grade, which provides maximum corrosion resistance. It has a highly polished finish, which minimises the adhesion of dirt and moisture, thereby improving its weather-resistance.

(Centrum Bollards see page 19)



NEW

Glasdon Manchester™

Robust, traditional bollard.



Design Features

- Two models available, rigid Standard model or flexible Rebound model.
- LockFast Socket System fixing option allows quick and easy bollard top replacement, reducing the need for road closure or costly reinstatement.
- Requires minimal maintenance compared to cast iron bollards.

Optional Extras

- Blanking Cap – Temporary or Lockable.
- Decorative banding in Gold, retroreflective banding in Red and White, Red, White or Yellow.

Materials (Please see page 5 for details.)

- Standard model : Durapol (available with Below-Ground Extended Base or LockFast Socket System fixing option).
- Rebound model : Impactapol (available with Below-Ground Extended Base or LockFast Socket System fixing option).
- LockFast Socket : Durapol.
- Retroreflective and Decorative banding: Aluminium backed (Durapol model only). Impactalight microprismatic retroreflective material (Rebound model only).

Fixing Options (Please see page 4 for details.)

- Below-Ground Extended Base.
- Below-Ground LockFast Socket System.



Specifications SAFETY NOTICE – if removal of the socketed bollard creates a safety hazard, we recommend purchase of a socket blanking cap. please see page 5.

Dimensions

- Height above ground: 1005mm
- Overall height: 1302mm
- Depth below ground: 290mm (concrete-in) 350mm (with socket)
- Maximum diameter: 220mm
- Standard Bollard Weight: 3.5kg
- Rebound Bollard Weight: 4kg
- Socket Weight: 3.7kg



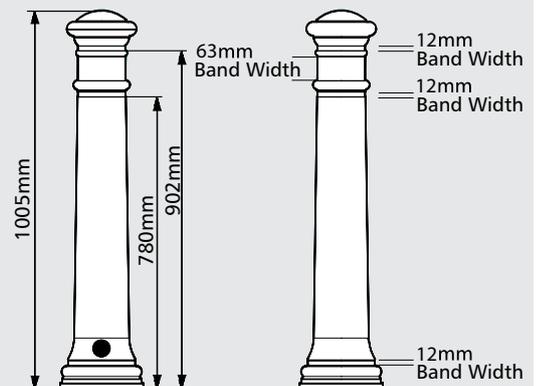
Glasdon Manchester Optional Banding

- A+B.** 1, 2 or 3 x 12mm and/or 1 x 63mm Gold decorative bands.
- C+D.** 1, 2 or 3 x 12mm and/or 1 x 63mm Red/White retroreflective* bands.
- E.** 1, 2 or 3 x 12mm and/or 1 x 63mm Red retroreflective* bands.
- F.** 1, 2 or 3 x 12mm and/or 1 x 63mm White retroreflective* bands.
- G.** 1, 2 or 3 x 12mm and/or 1 x 63mm Yellow retroreflective* bands.

Colour

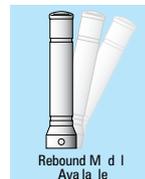


Black



Neopolitan™ 20

A contemporary style bollard for modern urban environments



Design Features

- Two models available, rigid Standard model and flexible Rebound model.
- Recessed areas for decorative or retroreflective banding.

Optional Extras

- Blanking cap.
- Decorative banding in Gold, retroreflective banding in Red, White, Red and White or Yellow.
- Chain linking - please see page 3 for details (available with Durapol Bollards only).

Materials (Please see page 5 for details.)

- Standard model : Durapol (available with Standard Bolt-Down, Concrete-In Anchor (adjustable depth), Below-Ground Socket System or Below-Ground Guardsman Anti-Ram Raid fixing options).
- Rebound model : Impactapol (available with Below-Ground Extended Base fixing option).

Fixing Options (Please see page 4 for details.)

- Standard Bolt-Down.
- Concrete-In Anchor (adjustable depth).
- Below-Ground Socket System.
- Below-Ground Guardsman Anti-Ram Raid.
- Below-Ground Extended Base.



Specifications SAFETY NOTICE - If removal of the socketed bollard creates a safety hazard, we recommend purchase of a Socket Blanking Cap. Please see page 5.

Dimensions

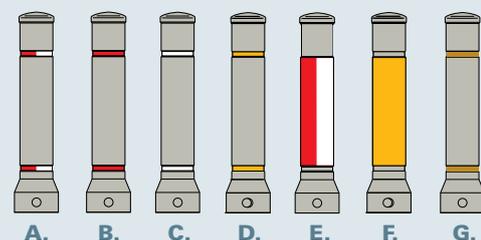
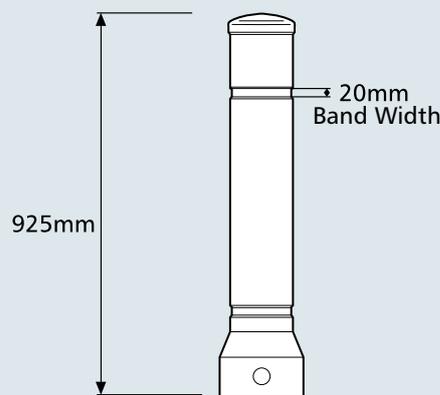
Height above ground: 925mm.
Main stem diameter: 150mm.
Maximum diameter: 200mm.
Weight:

- Standard Bolt Down Bollard (Excluding Fixings): 3.5kg
- Concrete-In Anchor Bollard (Excluding Fixings): 3.5kg
- Below Ground Socket System Bollard (Excluding Socket): 5kg
- Below Ground Guardsman Bollard (Excluding Fixings): 3.5kg
- Below Ground Extended Base Bollard: 5kg

Colours



*Rebound model available in Black or White only.



Neopolitan 20 Optional Banding

- 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 Yellow retroreflective bands.#

- E. 1 x 500mm x 485mm Red/White body sleeve#. (3 x 150mm bands are available for use with Rebound model.)
- F. 1 x 500mm x 485mm Yellow body sleeve.#
- G. 2 x 20mm Gold decorative bands.

Impactalight™ impact-resistant retroreflective banding is available with Rebound model.

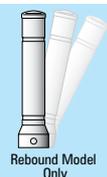
*All retroreflective materials supplied by Glasdon UK are as recommended in table NA1 of the National Annex of BS EN 12899-1 2007 Fixed Vertical Road Signs.

Individual product specification sheets are available on request. Please telephone 01253 600410 for details.

NEW

Advanced Neopolitan™ 150

The Glasdon Neopolitan 150 Bollard Rebound Model is now available with a LockFast™ Socket to save you time and money!



Design Features

- One model available, flexible rebound model (choice of two fixing options).
- LockFast Socket allows quick and easy bollard top replacement, reducing the need for road closure or costly reinstatement.
- Tamper proof lock prevents unauthorised removal of the bollard.
- Shallow depth installation.

Optional Extras

- Blanking cap – Temporary or Lockable.
- Retroreflective banding in Red and White, Red, White or Yellow.
- Personalisation – please see back page for details.

Materials (Please see page 5 for details.)

- Bollard: Impactapol.
- LockFast Socket: Durapol.
- Banding: Impactaight™ Microprismatic Retroreflective material.

Fixing Options (Please see page 4 for details.)

- Below-Ground LockFast Socket System.
- Below-Ground Extended Base.



Specifications SAFETY NOTICE – If removal of the socketed bollard creates a safety hazard, we recommend purchase of a Socket Blanking Cap. Please see page 5.

Dimensions

Height above ground: 925mm
 Maximum stem diameter: 200mm
 Depth below ground: 290mm (concrete-in)
 350mm (with socket)

Bollard Weight: 4kg
 LockFast Socket Weight: 3.7kg

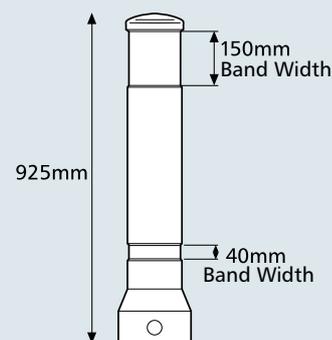
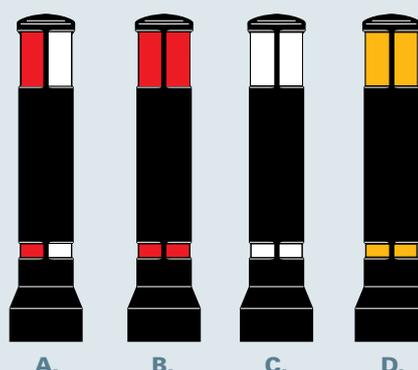
Colours



Advanced Neopolitan 150 Optional Banding

- A.** 2 x 40mm and 2 x 150mm Red/White retroreflective* bands.
- B.** 2 x 40mm and 2 x 150mm Red retroreflective* bands.
- C.** 2 x 40mm and 2 x 150mm White retroreflective* bands.
- D.** 2 x 40mm and 2 x 150mm Yellow retroreflective* bands.

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



Neopolitan™ 150

A contemporary style bollard for modern urban environments



Standard Features

- Two models available, rigid Standard model and flexible Rebound model.
- Recessed areas for decorative or retroreflective banding.

Optional Extras

- Blanking cap.
- Decorative banding in Gold, retroreflective banding in Red, White, Red and White or Yellow.
- Personalisation - please see back page for details.
- Chain linking - please see page 2 for details (available with Durapol Bollards only).

Materials (Please see page 5 for details.)

- Standard model : Durapol (available with Standard Bolt-Down, Concrete-In Anchor (adjustable depth), Below-Ground Socket System or Below-Ground Guardsman Anti-Ram Raid fixing options).
- Rebound model : Impactapol (available with Standard Bolt Down, Concrete-In Anchor (adjustable depth) or Below-Ground Extended Base fixing options).

Fixing Options (Please see page 4 for details.)

- Standard Bolt-Down.
- Concrete-In Anchor (adjustable depth).
- Below-Ground Socket System.
- Below-Ground Guardsman Anti-Ram Raid.
- Below-Ground Extended Base.



Specifications

SAFETY NOTICE - If removal of the socketed bollard creates a safety hazard, we recommend purchase of a Socket Blanking Cap. Please see page 5.

Dimensions

Height above ground: 925mm.
(Standard Bolt-Down Fixing Model and Concrete-In Anchor Model: 1005mm)
Main stem diameter: 150mm.
Maximum diameter: 200mm.

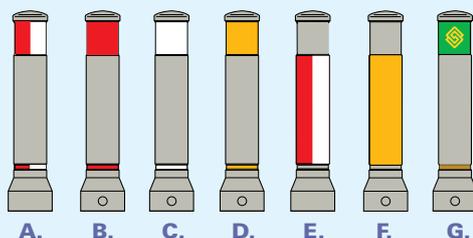
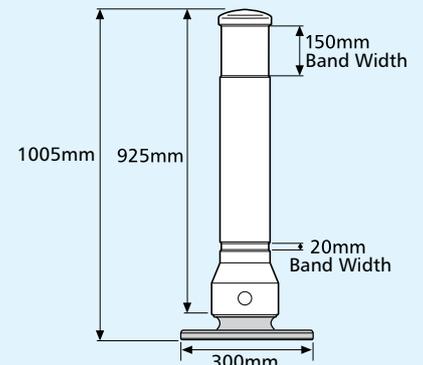
Weight:

Standard Bolt Down Bollard (Excluding Fixings): 4.5kg
Concrete-in Anchor Bollard (Excluding Fixings): 4.5kg
Below Ground Socket System Bollard (Excluding Socket): 5kg
Below Ground Guardsman Bollard (Excluding Fixings): 3.5kg
Below Ground Extended Base Bollard: 5kg

Colours



*Rebound model available in Black or White only.



Neopolitan 150 Optional Banding

- 1 x 20mm and 1 x 150mm Red/White retroreflective bands.*
- 1 x 20mm and 1 x 150mm Red retroreflective bands.*
- 1 x 20mm and 1 x 150mm White retroreflective bands.*
- 1 x 20mm and 1 x 150mm Yellow retroreflective bands.*
- 1 x 500mm x 485mm Red/White body sleeve.*
(3 x 150mm bands are available for use with Rebound model.)
- 1 x 500mm x 485mm Yellow body sleeve.*
- 1 x 20mm and 1 x 150mm decorative bands.
150mm band is ideal for personalisation with your crest, logo or message.

Impactalight impact-resistant retroreflective banding is available with Rebound model.

*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.

Individual product specification sheets are available on request. Please telephone 01253 600410 for details.

NEW

Infomaster™

The ideal way to display the 661A Regulatory 'Disabled Badge Holders Only' sign



Design Features

- Rigid Durapol® construction.
- Recessed area for 308mm x 248mm polycarbonate sign face.

Optional Extras

- Blue side reflectors.
- Wall mounting plaque.
- Non-standard sign options.
- Personalisation – please see back page for details.

Materials and Fixing Options (Please see page 4 for details.)

- Standard model : Durapol (available with Standard Bolt-Down or Below-Ground Guardsman Anti-Ram Raid fixing options).
- Rebound model : Impactapol (available with Standard Bolt Down fixing option).

Fixing Options:

- Standard Bolt-Down Fixing.
- Concrete-in Anchor (Adjustable Depth).

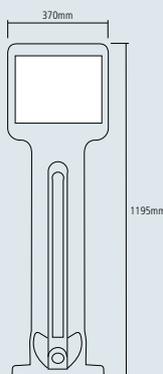


Specifications

Dimensions

- Height: 1195mm.
- Width: 370mm.
- Depth: 171mm.
- Weight: 6kg.
- Signface: 308mm x 248mm.

Colours



Neopolitan Signhead™

A stylish, slimline, sign-carrying bollard



Design Features

- Two models available, rigid Standard model and flexible Rebound model.
- Recessed area for 210mm x 125mm rectangular signface.
- Recessed areas for decorative or retroreflective banding.

Optional Extras

- Blanking cap.
- Decorative banding or retroreflective banding.
- Rectangular signs.
- Non-standard signface options.
- Personalisation - please see back page for details.

Materials and Fixing Options (Please see pages 4-5 for details.)

- Standard model : Durapol (available with Standard Bolt-Down, Concrete-In Anchor (adjustable depth), Below-Ground Socket System or Below-Ground Guardsman Anti-Ram Raid fixing options).
- Rebound model : Impactapol (available with Standard Bolt Down, Concrete-In Anchor (adjustable depth) or Below-Ground Extended Base fixing options).

Specifications

SAFETY NOTICE - If removal of the socketed bollard creates a safety hazard, we recommend purchase of a Socket Blanking Cap. Please see page 5.

Dimensions

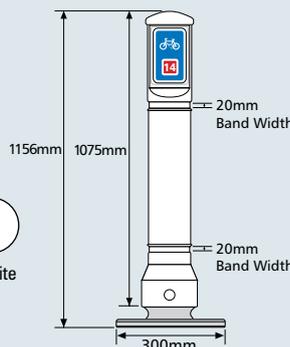
- Height above ground: 1075mm. (Standard Bolt-Down Fixing Model and Concrete-In Anchor Model: 1156mm)
- Main stem diameter: 150mm.
- Maximum diameter: 200mm.
- Signface: 210mm x 125mm.
- Weight: Standard Bolt Down Bollard (Excluding Fixings): 5kg

- Concrete-in Anchor Bollard (Excluding Fixings): 5kg
- Below Ground Socket System Bollard (Excluding Socket): 5kg
- Below Ground Guardsman Bollard (Excluding Fixings): 3.2kg
- Below Ground Extended Base Bollard: 5kg

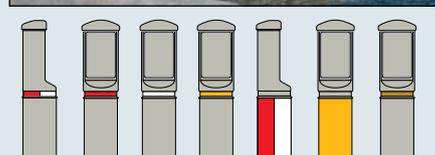
Colours



*Rebound model available in Black or White only.



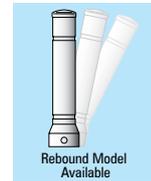
Black NEOPOLITAN SIGNHEAD Bollard with sign displaying End of area where vehicles may be parked partially on verge or footway.



Impactalight impact-resistant retroreflective banding is available with Rebound model.

Please contact our sales office for details on sign options

A classically styled bollard with multiple banding options



Design Features

- Two models available, rigid Standard model and flexible Rebound model.
- Recessed areas for decorative or retroreflective banding.

Optional Extras

- Decorative banding in Gold, retroreflective banding in Red, White, Red and White or Yellow.
- Chain linking - please see page 3 for details.

Materials (Please see page 5 for details.)

- Standard model: Durapol.
- Rebound model: Impactapol.

Fixing Options (Please see page 4 for details.)

- Standard model : Below-Ground Socket System.
- Rebound model : Below-Ground Extended Base.

Now also available as a Flexible Rebound model



Black JUBILEE Bollard with decorative Gold bands.



Black JUBILEE Bollards with decorative Gold bands.



Black JUBILEE Bollards with decorative Gold bands.

Specifications

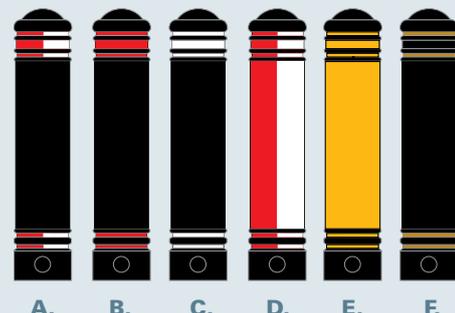
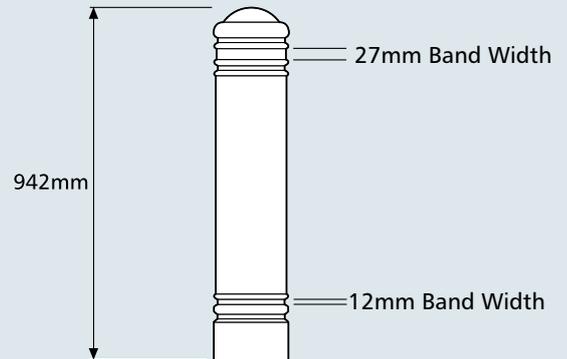
SAFETY NOTICE - If removal of the bollard creates a safety hazard, we recommend purchase of a Socket Blanking Cap. Please see page 5.

Dimensions

- Height above ground: 942mm.
- Depth below ground: 500mm.
- Main stem diameter: 180mm.
- Maximum diameter: 190mm.
- Standard Bollard weight: 5.00kg.
- Socket weight: 3.8kg.
- Combined weight: 8.8kg.

Colour*

- Black
- * Other colours are available subject to a minimum order quantity. Please telephone our Sales Office for details.

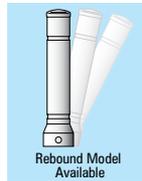


Jubilee Optional Banding

- 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 600mm x 580mm Red/White body sleeve, 4 x 12mm and 1 x 27mm retroreflective bands.* (Reflectorised Body Kits also available which include banding and full body sleeve.)
- E.** 1 x 600mm x 580mm Yellow body sleeve, 4 x 12mm and 1 x 27mm retroreflective bands.* (Reflectorised Body Kits also available which include banding and full body sleeve.)
- F.** 4 x 12mm Gold decorative bands.

Mini Ensign™

A compact sign carrying bollard with a modern, neat appearance



Design Features

- Two models available, rigid Standard model and flexible Rebound model.
- Two recessed areas for two x Ø150mm signfaces.
- Recessed areas for decorative or retroreflective banding.

Optional Extras

- Blanking cap.
- Decorative banding in Gold, retroreflective banding in Red, White, Red and White or Yellow.
- Sign options.
- Personalisation - please see back page for details.

Materials (Please see page 5 for details.)

- Standard model : Durapol (available with Standard Bolt-Down, Concrete-In Anchor (adjustable depth), Below-Ground Socket System or Below-Ground Guardsman Anti-Ram Raid fixing options).
- Rebound model : Impactapol (available with Standard Bolt Down, Concrete-In Anchor (adjustable depth) or Below-Ground Extended Base fixing options).

Fixing Options (Please see page 4 for details.)

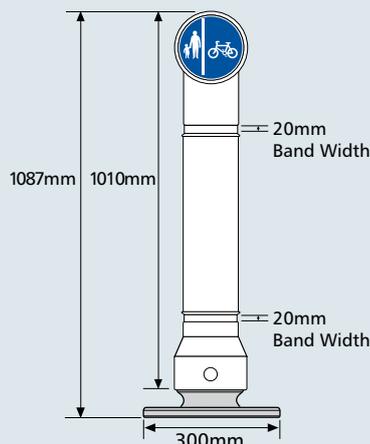
- Standard Bolt-Down.
- Concrete-In Anchor (adjustable depth).
- Below-Ground Socket System.
- Below-Ground Guardsman Anti-Ram Raid.
- Below-Ground Extended Base.



Mini Ensign Specifications

Dimensions

Height above ground: 1010mm.
(Standard Bolt-Down Fixing Model and Concrete-In Model: 1087mm)
Main stem diameter: 150mm.
Maximum diameter: 200mm.
Signface diameter: 150mm.
Weight:
Standard Bolt Down Bollard (Excluding Fixings): 4.8kg
Concrete-in Anchor Bollard (Excluding Fixings): 4.8kg
Below Ground Socket System Bollard (Excluding Socket): 5kg
Below Ground Guardsman Bollard (Excluding Fixings): 3.2kg
Below Ground Extended Base Bollard: 5kg



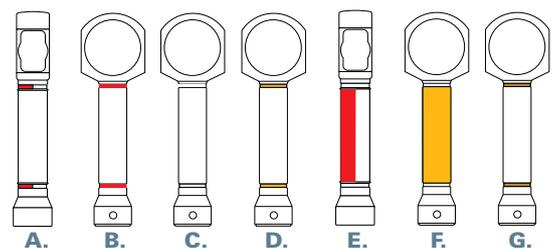
Colours



SAFETY NOTICE - If removal of the socketed bollard creates a safety hazard, we recommend purchase of a Socket Blanking Cap. Please see page 5.

*Rebound model available in Black or White only.
**Minimum order quantity applies.

Ensign & Mini Ensign Optional Banding



- 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 Yellow retroreflective bands.*
- E.** 1 x 500mm x 485mm Red/White body sleeve.*
(3 x 150mm bands are available for use with Mini Ensign Bollard Rebound model).
- F.** 1 x 500mm x 485mm Yellow body sleeve.*
- G.** 2 x 20mm Gold decorative bands.



Ensign Bollard also takes two Ø150mm signs.



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

Impactalight impact-resistant retroreflective banding is available with Mini Ensign Bollard Rebound model.

The Ø300mm and Ø150mm signs are also suitable for personalisation with your safer routes to school logo, or any other crest, logo or message. Please telephone 01253 600410 for more information.

Ensign™

Accommodates 300mm diameter signs, ideal for many applications



Design Features

- One model available, rigid Standard model.
- Option to carry up to four signs. Two x Ø300mm main signfaces plus additional areas on the sides for two x Ø150mm or two 210mm x 125mm signs.
- Recessed areas for decorative or retroreflective banding.

Optional Extras

- Blanking cap.
- Decorative banding in Gold, retroreflective banding in Red, White, Red and White or Yellow.
- Sign options.
- Personalisation - please see back page for details.

Material (Please see page 5 for details.)

- Durapol.

Fixing Options (Please see page 4 for details.)

- Standard Bolt-Down.
- Concrete-In Anchor (adjustable depth).
- Below-Ground Socket System.
- Below-Ground Guardsman Anti-Ram Raid.

Black ENSIGN Bollard with Keep Left sign.



Millstone ENSIGN Bollards with pedestrian crossing sign.



Aircraft Grey ENSIGN Bollards with personalised sign.

Ensign (Ø300mm & Ø150mm) & Mini Ensign (Ø150mm) Sign Options



Standard Price Sign Options

	Ø300mm	Ø150mm
1. Max. Speed Limit (5mph)	✓	-
2. Max. Speed Limit (10mph)	✓	-
3. No Entry	✓	-
4. No Left Turn	✓	-
5. Cycles Prohibited	✓	-
6. Turn Left	✓	-
7. Keep Left	✓	-
8. Cycle Route	✓	✓
9. Cycle/Pedestrians Only	✓	✓
10. Cycle/Pedestrians Only "Route Marked"	✓	✓
11. In*	✓	-
12. Out*	✓	-
13. Waymark	✓	✓
14. Disabled Sign	✓	✓

* For use on the public highway these options require prior approval from the DfT. All other standard options conform fully with the TSRGD. Please contact our Sales Office for further details of sign options.

Non-Standard Price Sign Options

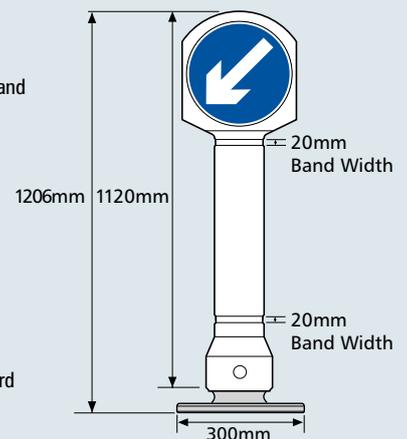


	Ø300mm	Ø150mm
15. Pedestrian Crossing*	✓	-
16. Mini Roundabout*	✓	-
17. Delivery Point	✓	-
18. No Swimming	-	✓
19. No Swimming (text)	-	✓
20. Beware Deep Water	-	✓

Ensign Specifications

Dimensions

- Height above ground: 1120mm. (Standard Bolt-Down Fixing Model and Concrete-In Model: 1206mm)
- Diameter at base: 200mm.
- Main stem diameter: 150mm.
- Maximum width: 338mm.
- Signface diameter: 300mm.
- Weight:
- Standard Bolt Down Bollard (Excluding Fixings): 6kg
- Concrete-in Anchor Bollard (Excluding Fixings): 6kg
- Below Ground Socket System Bollard (Excluding Socket): 7.2kg
- Below Ground Guardsman Bollard (Excluding Fixings): 3.9kg



Colours



SAFETY NOTICE - If removal of the bollard creates a safety hazard, we recommend purchase of a Socket Blanking Cap. Please see page 5.

*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.

Individual product specification sheets are available on request. Please telephone 01253 600410 for details.

Admiral™

Two robust bollards



Design Features

- Two models available, rigid Standard model (to take 80mm banding) or flexible Rebound model (Junction Marker) (to take 150mm banding).
- Recessed area for decorative or retroreflective banding.

Optional Extras

- Decorative banding in Yellow, Brown, Green or Silver, retroreflective banding in Red, White, Red and White or Yellow.
- Chain linking - please see page 3 for details (available with Durapol Bollards only).
- Personalisation - please see back page for details.

Materials (Please see page 5 for details.)

- Standard model : Durapol - textured finish (available with Below-Ground Socket System).
- Rebound model : Impactapol - smooth finish (available with Below-Ground Extended Base).

Fixing Options (Please see page 4 for details.)

- Standard model : Below-Ground Socket System.
- Rebound model : Below-Ground Extended Base.



Specifications

SAFETY NOTICE - If removal of the bollard creates a safety hazard, we recommend purchase of a Socket Blanking Cap. Please see page 5.

Dimensions

Height above ground: 936mm.
 Depth below ground: 500mm.
 (Below-Ground Extended Base Model: 300mm)
 Main stem diameter: 198mm.
 Standard Bollard (including Socket) weight: 8.9kg.
 Standard Bollard weight: 5.1kg.
 Socket weight: 3.8kg.
 Rebound Bollard weight: 4kg.

Colours

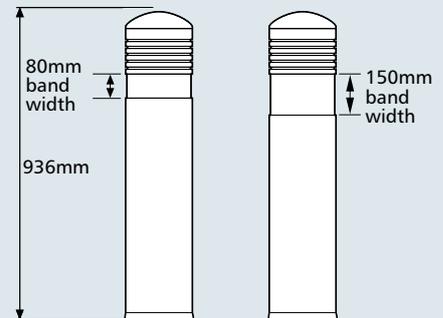


*Admiral Rebound Bollard available in Black or White only.

(Non-standard colours are subject to a minimum order quantity.)

Standard Model

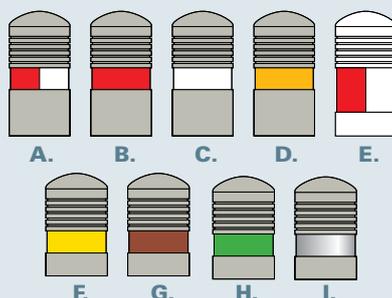
Rebound Model



- G. 1 x 80mm Brown decorative band.
- H. 1 x 80mm Green decorative band.
- I. 1 x 80mm Silver decorative band.

** Available with Admiral Rebound Bollard only.

Impactalight impact-resistant retroreflective banding is available with all Rebound models.



Admiral Optional Banding

- 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 Yellow retroreflective band.*
- E. 1 x 150mm Red/White retroreflective band.* **
- F. 1 x 80mm Yellow decorative band.

Victory™

A heritage, cannon style bollard



Design Features

- Two models available, rigid standard model or flexible Rebound model.
- Recessed areas for decorative or retroreflective banding.

Optional Extras

- Aluminium backed and riveted decorative Gold bands.
- Retroreflective banding in Red, White, Red and White or Yellow.
- Personalisation - please see back page for details.
- Chain linking - please see page 3 for details (available with Durapol Bollards only).

Materials (Please see page 5 for details.)

- Standard model : Durapol (available with Below-Ground Socket System fixing option).
- Rebound model : Impactapol - smooth finish (available with Below-Ground Extended Base fixing option).

Fixing Options (Please see page 4 for details.)

- Below-Ground Socket System.
- Below-Ground Extended Base.



Black VICTORY Bollards with decorative Gold bands.

Black VICTORY Bollards with retroreflective bands.

Specifications

SAFETY NOTICE - If removal of the bollard creates a safety hazard, we recommend purchase of a Socket Blanking Cap. Please see page 5.

Dimensions

Height above ground: 967mm.
 Depth below ground: 500mm.
 (Below-Ground Extended Base Model: 420mm)
 Maximum diameter: 200mm.
 Standard Bollard weight: 5.00kg.
 Socket weight: 3.8kg.
 Standard Bollard (including socket) weight: 8.8kg.
 Rebound Bollard weight: 4.5kg.

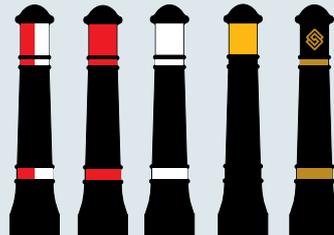
Colour



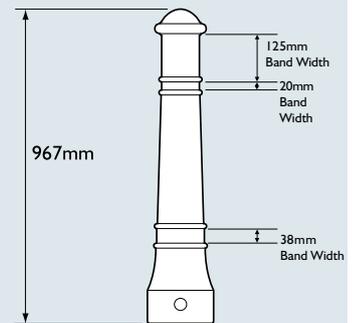
Black

Victory Optional Banding

- A.** 1 x 20mm and/or 1 x 38mm and/or 1 x 125mm Red/White retroreflective bands.*
- B.** 1 x 20mm and/or 1 x 38mm and/or 1 x 125mm Red retroreflective bands.*
- C.** 1 x 20mm and/or 1 x 38mm and/or 1 x 125mm White retroreflective bands.*
- D.** 1 x 125mm Yellow retroreflective band.*
- E.** 1 x 20mm and/or 1 x 38mm Gold decorative bands and/or 1 x 125mm decorative bands. 125mm band is ideal for personalisation with your crest, logo or message.



A. B. C. D. E.



Clifton™

A heritage style four-sided bollard with crest detail



Design Features

- Recessed areas for decorative or retroreflective banding.
- Moulded-in decorative crest detail.

Optional Extras

- Decorative banding in Gold, retroreflective banding in Red, White, Red and White or Yellow.
- Personalised moulded-in crest detail.
- Personalisation - please see back page for details.

Material (Please see page 5 for details.)

- Durapol.

Fixing Options (Please see page 4 for details.)

- Below-Ground Socket System.



Black CLIFTON Bollard with Red retroreflective bands.



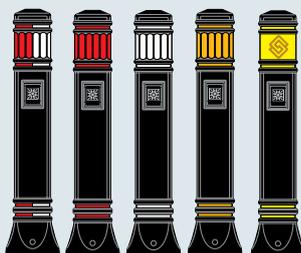
Black CLIFTON Bollard with decorative Gold bands and co-ordinating STANFORD™ Litter Bin and STANFORD Seat.

Specifications

SAFETY NOTICE - If removal of the bollard creates a safety hazard, we recommend purchase of a Socket Blanking Cap. Please see page 5.

Dimensions

Height above ground: 925mm.
 Depth below ground: 500mm.
 Main stem width: 140mm.
 Maximum width: 200mm.
 Bollard weight: 5.00kg.
 Socket weight: 3.8kg.
 Combined weight: 8.8kg.



A. B. C. D. E.

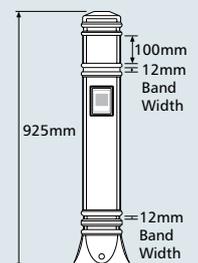
Clifton Optional Banding

- A.** 4 x 12mm and/or 1 x 100mm Red/White retroreflective bands.*
- B.** 4 x 12mm and/or 1 x 100mm Red retroreflective bands.*
- C.** 4 x 12mm and/or 1 x 100mm White retroreflective bands.*
- D.** 4 x 12mm and/or 1 x 100mm Yellow retroreflective bands.*
- E.** 4 x 12mm Gold decorative bands and/or 1 x 100mm decorative bands. 100mm band is ideal for personalisation with your crest, logo or message.

Colour*



* Other colours are available subject to a minimum order quantity. Please telephone our Sales Office for details.



*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.

Edgemaster™ 20

An attractive bollard to protect grass verges from vehicle damage



Design Features

- Recessed area for decorative or retroreflective banding (*Non Highways Use*).
- A Ground Level Marker helps to ensure the bollard is installed at the correct depth.

Optional Extras

- Decorative banding in Red, Blue, Green, Yellow and Black.
- Ground Fixing Peg.

Ground Fixing Peg

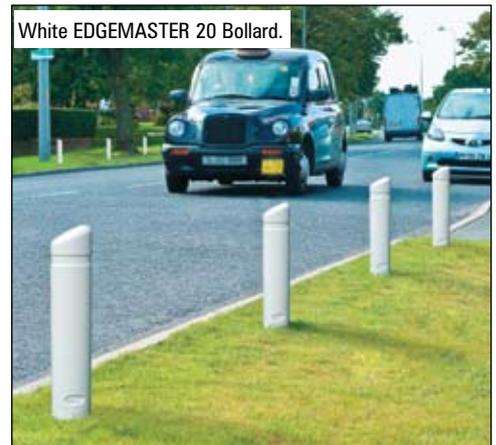
A Ground Fixing Peg can be attached to the base of the bollard, if preferred. The peg acts like an anchor, to provide secure installation and add even greater strength and impact-resistance. Bollards installed in very soft earth may benefit from the extra stability the peg provides.

Material (Please see page 5 for details.)

- Durapol.

Fixing Options (Please see page 4 for details.)

- Below-Ground Extended Base.
- Below-Ground Extended Base with Ground Fixing Peg.

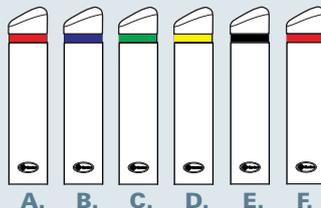


Specifications

Dimensions

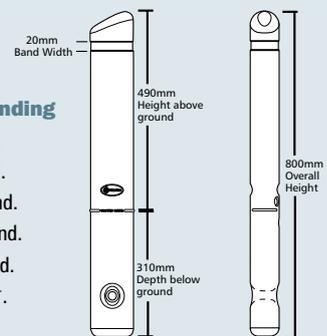
Overall Height: 800mm.
Height above ground: 490mm.
Depth below ground: 310mm.
Width: 105mm.
Weight: 0.6kg.

Colour



Edgemaster 20 Optional Banding

- A. 1 x 20mm Red decorative band.
- B. 1 x 20mm Blue decorative band.
- C. 1 x 20mm Green decorative band.
- D. 1 x 20mm Yellow decorative band.
- E. 1 x 20mm Black decorative band.
- F. 1 x 20mm Retroreflective band*.



*Please telephone our sales office on 01253 600410 if retroreflective banding is required.

Edgeliner™

Durable mini bollard that has the edge on ordinary posts!



Design Features

- Recessed area for decorative or retroreflective banding. (*Non Highways Use*).

Optional Extras

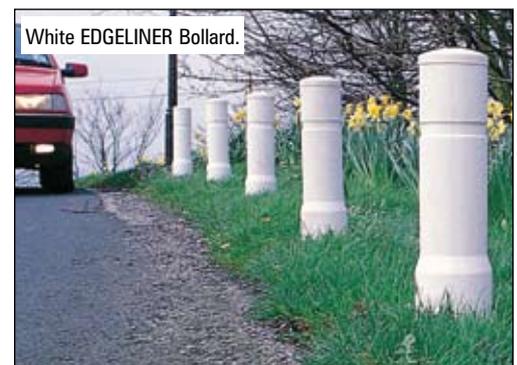
- Decorative banding in Gold, retroreflective banding in Red, White, Red and White.
- Chain linking - please see page 3 for details.
- Personalisation - please see back page for details.

Material (Please see page 5 for details.)

- Durapol.

Fixing Options (Please see page 4 for details.)

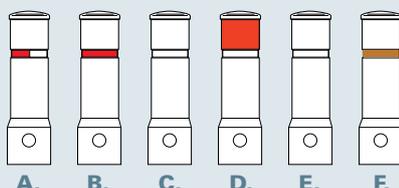
- Below-Ground Extended Base.



Specifications

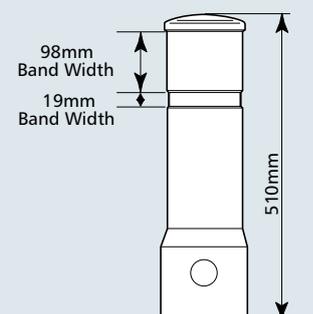
Dimensions

Height above ground: 510mm.
Depth below ground: 276mm.
Main stem diameter: 120mm.
Maximum diameter: 140mm.
Weight: 1.3kg.



Edgeliner Optional Banding

- 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 retroreflective band.*
- E. 1 x 98mm White retroreflective band.*
- F. 1 x 19mm Gold decorative band.



Colours



Buffer™

Two impact-absorbing recycled rubber safety bollards



100% RECYCLED MATERIAL

Design Features

- Reinforcing tube, above which bollard is flexible, yet resilient.
- Available in two heights 600mm or 900mm.
- Recessed area for decorative or retroreflective banding.

Optional Extras

- Decorative banding in Gold, retroreflective banding in Red, White, Red and White or Yellow.
- Personalisation - please see back page for details.

Materials (Please see page 5 for details.)

- Buffer Bollard - Recycled Rubber Material.
- Reinforcing Tube - Galvanised Mild Steel.

Fixing Options (Please see page 4 for details.)

- Standard Bolt-Down.
- Concrete-In Anchor (adjustable depth).
- Below-Ground Extended Base.



600mm Black BUFFER Bollards with Red/White retroreflective band.



900mm Black BUFFER Bollard with White retroreflective band.

Absorbs the impact of accidental parking nudges.

Specifications

Dimensions

Height: 600mm & 900mm.
Weight: 25kg (600mm) & 36kg (900mm).
(c/w below-ground fixing reinforcing tube.)
Max Diameter: 250mm.

Colours

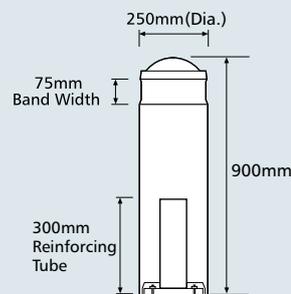


Buffer Optional Banding

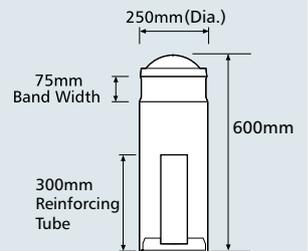
- A. 1 x 75mm Red/White retroreflective band.*
- B. 1 x 75mm Red retroreflective band.*
- C. 1 x 75mm White retroreflective band.*
- D. 1 x 75mm Yellow retroreflective band.*
- E. 1 x 75mm Gold decorative band.

Also ideal for personalisation with your crest, logo or message.

900mm Height



600mm Height



Enviropol®

Two bollards manufactured entirely from recycled materials



100% RECYCLED MATERIAL



Design Features

- Flat or round top model.
- Recessed area for decorative or retroreflective banding.

Optional Extras

- Decorative banding in Yellow, Green or Silver, retroreflective banding in Red, White or Red and White.
- Personalisation - please see back page for details.

Material (Please see page 5 for details.)

- Enviropol Recycled Material.

Fixing Options (Please see page 4 for details.)

- Below-Ground Extended Base.



Black Flat Top ENVIROPOL Bollard with Red retroreflective band.



Black Round Top ENVIROPOL Bollards with White retroreflective band.

Specifications

Dimensions

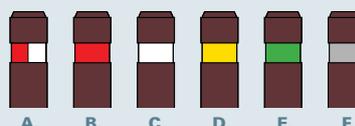
	Flat Top Model	Round Top Model
Height above ground:	1000mm.	1000mm.
Depth below ground:	500mm.	500mm.
Maximum Diameter:	150mm.	150mm.
Bollard weight:	20kg.	23kg.

Personalisation

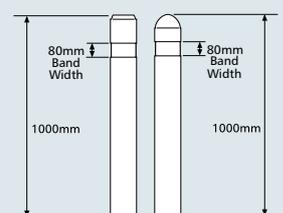
Enviropol Bollard banding is ideal for personalisation with your crest, logo or message. Other colours are available to match your particular scheme, subject to a minimum order quantity.

Enviropol Optional Banding

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



Flat Top Model Round Top Model



Colours



Rebound Signmaster™

Sign carrying bollard



Design Features

- One model available, flexible rebound model.
- Recessed areas for retroreflective side and front panels.
- Two recessed areas for two x Ø300mm signfaces.

Optional Extras

- Fluorescent Yellow retroreflective front, back and side panels.
- Sign options for highways use.
- Other sign options available.

Material (Please see page 5 for details.)

- Impactapol.

Fixing Options (Please see page 4 for details.)

- Standard Bolt-Down.
- Concrete-In Anchor (adjustable depth).



Black REBOUND SIGNMASTER Bollard.



REBOUND SIGNMASTER Bollard with 1 x retroreflective front panel and 4 x retroreflective side panels.



White REBOUND SIGNMASTER Bollard.



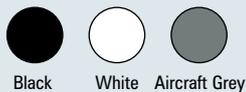
REBOUND SIGNMASTER Bollard is made from totally flexible Impactapol material.

Specifications

Dimensions

Height above ground: 1036mm.
 Maximum bollard width: 400mm.
 Maximum bollard depth: 200mm.
 Bolt-Down foot detail: 328 x 328mm.
 Signface: 300mm diameter.
 Front/rear patch area: 0.1617m².
 Side patch area: 0.0243m².
 Weight: 6kg.

Colours



Sign Options for use on Highways

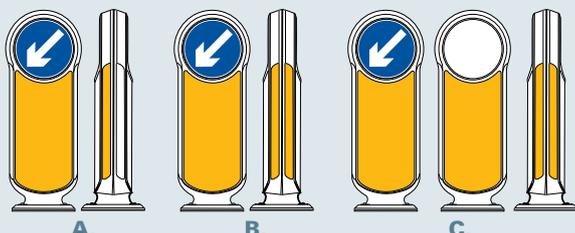
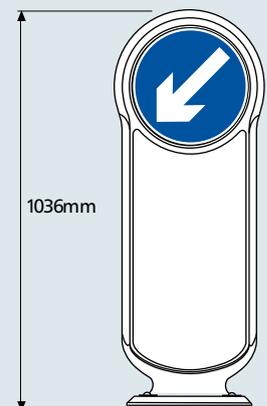


Other Sign Options



Rebound Signmaster has the option to carry 1 or 2 signs.

* Minimum order quantity applies. Please contact our sales office for these and other sign requirements.



Rebound Signmaster Optional Banding

- 1 x Fluorescent Yellow retroreflective front panel, 2 x Fluorescent Yellow retroreflective side panels.
- 1 x Fluorescent Yellow retroreflective front panel, 4 x Fluorescent Yellow retroreflective side panels.
- 1 x Fluorescent Yellow retroreflective front panel, 1 x Fluorescent Yellow retroreflective back panel, 4 x Fluorescent Yellow retroreflective side panels.

Centrum™ Stainless Steel Bollards

Design Features

- Five Standard models available, Zone 154mm diameter, Zone 102mm diameter, Linear 1000mm high, Linear 750mm high and Ellipse.

Optional Extras

- Decorative banding in Blue, retroreflective banding in Red/White, Red, White or Yellow available on Zone models.

Material

- Grade 316 Stainless Steel.

Fixing Options

- Below-Ground Extended Base.



Specifications

Dimensions

Zone 154mm dia.

Diameter: 154mm
Height above ground: 1000mm
Depth below ground: 300mm
Weight: 11.5kg

Zone 102mm dia.

Diameter: 102mm
Height above ground: 1000mm
Depth below ground: 300mm
Weight: 7.6kg

Linear 1000mm high

Diameter: 102mm
Height above ground: 1000mm
Depth below ground: 300mm
Weight: 6.7kg

Linear 750mm high

Diameter: 102mm
Height above ground: 750mm
Depth below ground: 300mm
Weight: 5.9kg

Ellipse

Depth: 75mm
Width: 125mm
Signface diameter: 125mm
Height above ground: 1000mm
Depth below ground: 300mm
Weight: 6.5kg



Centrum Optional Banding (for Zone Models only)

- 3 x 20mm Red/White retroreflective bands.*
- 3 x 20mm Red retroreflective bands.*
- 3 x 20mm White retroreflective bands.*
- 3 x 20mm Yellow retroreflective bands.*
- 3 x 20mm Blue decorative bands.

*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.

Individual product specification sheets are available on request. Please telephone 01253 600410 for details.

Personalisation

Successful promotion with personalised products

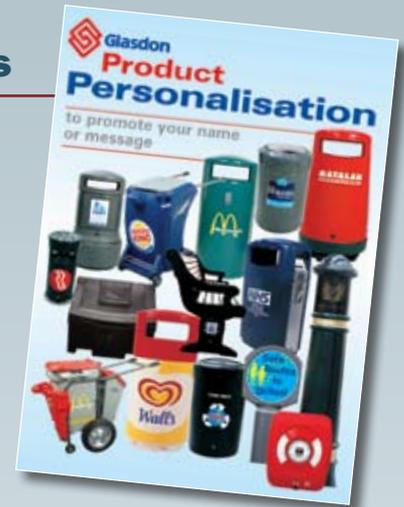
Many Glasdon bollards can be successfully used as a stylish and cost-effective promotional or informative medium by personalising with your name, logo, crest or message e.g. safer routes to school. Subject to a minimum order quantity and your choice of product we can personalise to your individual requirements, giving you a totally unique and distinctive product in your authority/organisation colours.

FREE PERSONALISATION VISUAL FOR YOUR AUTHORITY/ORGANISATION

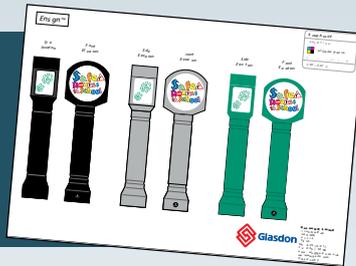
See how attractive your logo/crest would look on a Glasdon product. We can provide you with a computer illustration totally free of charge.

All you need to do is:

- 1) Select your preferred product(s), e.g. Ensign Bollard (page 13).
- 2) Choose a colour to match your needs, eg. Millstone.
- 3) Send quality colour artwork of your logo/crest, either on disk or as a print out, ideally A5 size or larger, (please telephone to discuss).



Using the latest computer technology, we can then produce a visual showing how your logo would look on the product of your choice.



Individual product specification sheets are available on request. Please phone 01253 600410 for details.

VISIT THE GLASDON WEBSITE www.glasdon.com

...Buy With Confidence

For information on other Glasdon products, please contact our Sales Office by Telephone: **01253 600410** or Fax: **01253 792558**.

HOW TO ORDER

To order direct from this Catalogue, please telephone 01253 600410 or fax 01253 792558. Alternatively, simply post your order to the address below.



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Glasdon, Admiral, Advanced Neopolitan 150, Buffer, Centrum, Clifton, Durapol, Edgeliner, Edgemaster 20, Ellipse, Ensign, Enviropol, Glasdon Manchester, Guardsman, Impactalight, Infomaster, Impactopol Jubilee Linear, Mini Ensign, Neopolitan, Neopolitan Signhead, Phoenix, Plaza, Rebound Signmaster, Stanford, Victory and Zone are trademarks or registered trademarks of GLASDON GROUP or its subsidiaries in the UK and other countries.