









www.safety4highways.com

Introduction

The Glasdon Group of Companies has more than fifty years of experience in the design, manufacture and supply of street furniture.

The first Glasdon road safety product was the original Vergemaster[™] Marker Post, launched in the late 1960s. Vergemaster Mk I was designed to return to its original shape in the event of a vehicle impact – the beginning of over forty years of Glasdon crash friendly, passively safe, low maintenance road products.



Vergemaster replaced old fashioned concrete and timber posts.



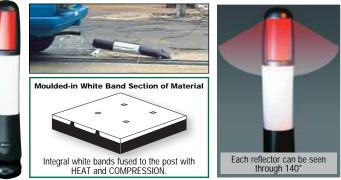
Testimony to the Glasdon commitment to continuous innovation, since that time we have introduced four new Vergemaster design variants. Each one has maximised the benefits of the very latest material and manufacturing methods.

The Vergemaster design has been continuously tested and revised since its launch and today's fifth generation product is one of the most advanced in the world.

Vergemaster RX (Extended Base Fixing model) has been successfully tested to BS EN 12767:2000. Tested by TRL, the UK's leading centre for transport research, Vergemaster RX not only passed at the highest level of safety (NE4), but also returned upright and continued to function as a hazard marker post.

Vergemaster RX features a prominent large white band, which helps to provide greater visual impact. The white band is integrally moulded onto the body of the Vergemaster RX, and is 20 times thicker than paint requiring no maintenance or painting for the life of the product.

The current reflectors offer a much wider angle of bright reflected light, which marks a bend much further in both directions.



In 1987 the number of vehicles colliding with road signs in the UK was over 2000. This ran up costs in terms of physical injury and replacement of signs. Traditional chevron signs were widely recognised as hazards in their own right due to their construction from rigid materials (usually including steel poles and aluminium sign faces).

This is when first generation Chevroflex[™] was manufactured from a polymer called Ultraflex[™] and was designed to bend on impact and allow vehicle drive-through and return to an upright position, surviving vehicle impacts at up to 50mph, even in sub-zero temperatures. This improved the safety of the vehicle occupants and ensured the hazards remained marked for other road users. Chevroflex comprised of a series of curved, flexible uprights inserted into a bank of linked polymer sockets, rooted in a narrow trench in the ground. Collectively, this bank of uprights form a chevron or series of chevrons with high visibility, one of its most important safety features.



With 25 years of product development Chevroflex Ultra is the latest generation of Chevroflex Sign System and further improves on the market-leading flexible solution.

For the first time, tested at over 100Km/h, Chevroflex Ultra is certified passively safe to performance standard NE3/100. Robust, weather resistant galvanised steel sockets allow damaged uprights to be replaced with minimum fuss. The socket and cover create a seal that prevents debris building up that would inhibit the function of the uprights. New Impactaflex[™] material has been specially developed by Glasdon to offer superior rigidity and resilience combined with class-leading recovery performance after a drive-through collision.



The Glasdon socketed bollard range began in the early 1980s with the Admiral[™] and Regency bollards and our first generation socket system.

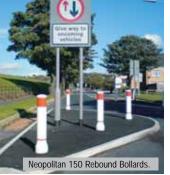
The socket allowed bollards to be easily removed and replaced for temporary, permanent or semi-permanent applications, and for the first time a damaged bollard could be quickly replaced without expensive groundworks. By 1995 the Glasdon bollard range had expanded to feature a wide variety of designs and a new, improved socket.

The development of Impactapol[®] Material in the 1990s allowed the manufacture of many of our most popular bollard designs in a crash friendly, passively safe format. Rebound bollards have been popular with highways engineers across the UK for over fifteen years.

The latest development to the road safety range sees the Advanced Neopolitan[™] 150 and Glasdon Manchester[™] bollards provide the ideal bollard solution for high risk traffic calming applications where vehicle impacts are expected.

By incorporating the newly designed and unique LockFast[™] socket system and our Impactapol material, customers can install and replace a rebound bollard with ease, offering significant time and cost savings.







The first Glasdon socketed bollard proven passively safe to Performance Standard NE4/100.



We are continually improving our facilities and have recently built a state of the art Innovation and Export Centre. This new structure houses our impressive Product Design team who are constantly designing and researching new products for the Glasdon range.

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 number 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 1-4, where Level 4 represents the safest and Level 1 the most dangerous.

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

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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 9001:2008 and ISO 14001:2004 accreditation, underlining our commitment to guality.

Durapol® Polymer

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 corrosionfree so it will not chip or rust, and is vandal resistant.

Passively Safe Impactapol® Polymer

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







Impactaflex[™] material has been specially developed by Glasdon to provide new Chevroflex Ultra[™] with superior rigidity and resilience, and offers exceptional recovery performance after a drive-through collision.

(Chevroflex Ultra see page 22-25)

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 page 26)

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 28-29)

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 21)



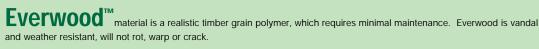
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Buffer[™] Bollard is manufactured from 100% recycled rubber tyres and is pressure moulded to create a strong, hard-wearing, weatherproof material.

(Buffer see page 21)





(Glasdon Gateway and Glenwood see page 32-34)

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Bollard Fixing Options

1. LockFast[™] Socket System

The new LockFast Socket System is the first Glasdon socket compatible with passively safe Impactapol 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, or 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 cap, which features a slip resistant finish

Locking Blanking Cap

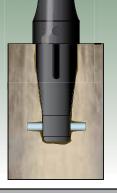
Temporary Blanking Cap





3. Below-Ground Extended Base

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



5. Bolt Down Fixings with Adjustable **Depth Concrete-in Anchors**

Concrete-in anchors offer additional anchorage and provide a permanent fixing point that allows bollards to be removed and reinstated without the need for additional groundwork. Optional adjustable depth concrete-in anchors can be used anywhere a fresh concrete sub-surface can be laid.



2. Standard Socket System

Glasdon socketed bollards are quick and easy to remove and replace, making them ideal for permanent, semi-permanent, or 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 cap, which features a slip resistant finish.

Locking Blanking Cap





4. Bolt-Down Fixing

Bolt-down fixings allow a bollard to be installed on existing concrete sub-surfaces in less than 8 minutes. Bolt-down fixing is ideal for use where below-ground installation is restricted or impossible.



6. Guardsman[™] 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. Guardsman bollards are an excellent security feature and have been shown in tests to stop an unladen van dead at speeds of up to 30mph.



Auto CAD model specifications are available on all products.

Product Photo Gallery

Traffic Calming Measures and Hazard Warning

White Neopolitan™ 150 bollards with Red/White retroreflective bands.



Black Neopolitan™ 150 bollards with Red/White retroreflective bands.





Junction Marking

White Admiral™ rebound bollard with 150mm Red/White retroreflective band.





Black Neopolitan™ 150 bollards with Red/White retroreflective bands.

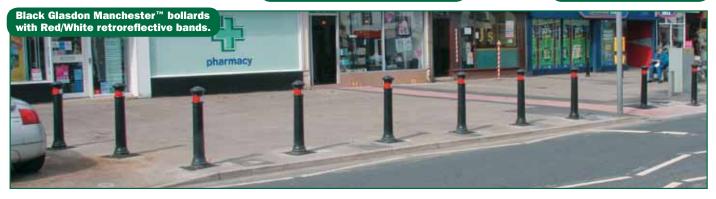
Product Photo Gallery



Red/White retroreflective bands.



Black Jubilee[™] bollard with decorative Gold bands.



Cycle Route Schemes and Sign Carrying Bollards



White Mini Ensign™ illuminated rebound bollards with Red/ White translucent retroreflective bands and Black Edgeliner rebound bollards with Red/White retroreflective bands



bands and signface ref: 956 and Black Neopolitan 150 bollards with Red retroreflective bands.



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Product Photo Gallery

Lay-bys







Vergemaster RX[™] marker post with Red/White retroreflective reflectors.

Bridge Structures



Verge Marking





Road Side Refuges



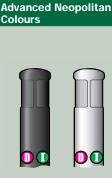


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Advanced Neopolitan[®] 150 Bollard A passively safe Rebound bollard available with the LockFast[®] Socket System.

Passively Safe to BS EN 12767 100* NE4





Black



Α.



C.

D.

C. 2 x 150mm and 2 x 40mm

D. 2 x 150mm and 2 x 40mm

White retroreflective patches#

Amber retroreflective patches#

Advanced Neopolitan Optional Banding

B.

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

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

Advanced Neopolitan Fixing Options

White

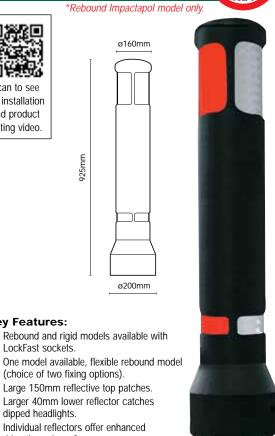


Scan to see the installation and product

testing video.



925mm



Larger 40mm lower reflector catches dipped headlights.

Key Features:

LockFast sockets.

Individual reflectors offer enhanced drive-through performance.

(choice of two fixing options). Large 150mm reflective top patches.

Rebound and rigid models available with

Lockfast[™] Socket

Moulded-in product code aids correct bollard top replacement.

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

Moulded-in arrow and logo aids correct installation.

Made from Durapol® polymer, a proven corrosion-resistant and impact-resistant material and 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

The first Glasdon socketed bollard proven passively safe to Performance Standard NE4/100.



#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

www.safety4highways.com

Glasdon ManchesterTM **Bollard** A passively safe traditional styled rebound or rigid bollard, available with the LockFastTM Socket System.

Passively

Safe to BS EN 12767 <u>100 *</u>



#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.

www.safety4highways.com

Neopolitan[™] 150 Bollard Our best-selling bollard, featuring a large 150mm top reflector for maximum visibility.



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Aircraft

Grey

Millstone Sandstone Dark Blue

ø150mm 925mm (Socket/Extended Base) (Bolt-down) 1005mm (\bigcirc ø200mm 300mm

*Rebound Impactapol model only.

Passively

Safe to BS EN 12767 <u>100 *</u> NE4

Key Features:

- Rigid socketed or rebound concrete in models available.
- Recessed areas for retroreflective or decorative banding.
- Wide range of fixing options available.
- Neopolitan 150 Optional Banding A В. C. D. Ε. F. G.

White

Black

1 x 150mm and 1 x 20mm Red/ Α. White retroreflective bands# B

0

Stone

- 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 body sleeve (3 x 150mm bands are available for use with Rebound model)#
- 1 x 485mm Amber body sleeve E. (3 x 150mm bands are available for use with Rebound model)#
- G. 1 x 150mm and 1 x 20mm decorative bands 150mm band is ideal for personalisation with your crest, logo or message.



Standard Socket Below Ground **Extended Base**



Bolt-Down Fixing



Bolt-Down Fixings with optional adjustable depth concrete in anchors







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Bridgemaster

Rigid Durapol Material

Passively Safe Rebound Impactapol Material

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#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.



600mm High Neopolitan[™] 150 Bollard A reduced height Neopolitan 150 for improved visibility at junctions.



*Rebound Impactapol model only



Black 600mm High Neopolitan 150 bollards with Red/White retroreflective bands and Black Neopolitan 150 bollards with Red/White retroreflective bands.





Bolt-Down Fixing 600mm High Neopolitan 150 Optional Banding 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# Rigid Durapol Material A B. C. D. Ε. E. 1 x 150mm and 1 x 20mm decorative bands 150mm band is ideal for personalisation with your crest, logo or message

#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.

ø150mm



Key Features:

- Rigid or rebound models available.
 - Recessed areas for retroreflective or decorative banding.

600mm	High Ne	opolitan 150 Colours
White	Black	(Some colours are subject to a minimum order q Please telephone our Sales Office for details.)

600mm High Neopolitan 150 Fixing Options





uantity.

Bolt-Down Fixings with optional adjustable depth concrete in anchors

Passively Safe Rebound Impactapol Material

www.safety4highways.com

Neopolitan[™] 20 Bollard A durable, contemporary-styled bollard with two 20mm banding recesses.

two 20mm banding recesses.



(Some colours are subject to a minimum order quantity Please telephone our Sales Office for details.) Neopolitan 20 Colours





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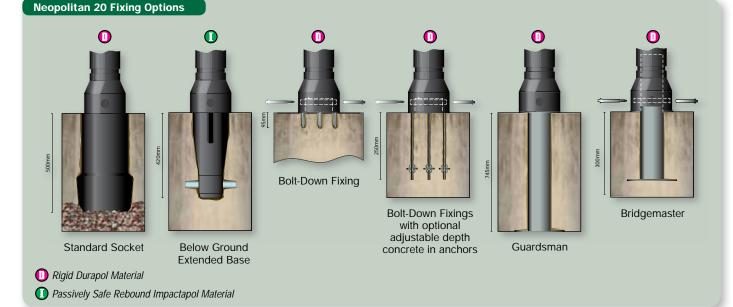
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- Rigid socketed or rebound concrete in models available.
- Recessed areas for retroreflective or decorative banding.
- Wide range of fixing options available.

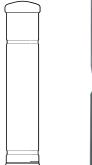


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- A. 2 x 20mm Red/White retroreflective E. 1 x 485mm Red/White body sleeve bands[#]
- **B.** 2 x 20mm Red retroreflective bands*
- C. 2 x 20mm White retroreflective bands#
- D. 2 x 20mm Amber retroreflective bands³
- (3 x 150mm bands are available for use with Rebound model)#
- F. 1 x 485mm Amber body sleeve (3 x 150mm bands are available for use with Rebound model)#
- G. 2 x 20mm Gold 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.



*Rebound Impactapol model only

ø150mm

ø200mm

925mm



Passively

Safe to BS EN 12767

<u>100 *</u> NE4

Admiral[™] Bollard A broad stemmed bollard ideal for use as a junction marker.

*Rebound Impactapol model only.

Passively

Safe to BS EN 12767 <u>100 *</u> NE4



#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.

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Victory[™] Bollard A traditional Victorian cannon-style bollard made from thoroughly modern materials.





BS EN 12767 <u>100 *</u> NE4 *Rebound Impactapol model only ø158mm ø200mm **Key Features:** Rigid socketed or rebound concrete in models available. Never requires painting unlike cast iron or steel equivalents. A fraction of the weight of a metal bollard - can be installed by one person. Recessed areas for retroreflective or decorative banding.

Passively

Safe to





- A. 1 x 125mm and/or 1 x 20mm and/or 1 x 38mm Red/White retroreflective bands³
- B. 1 x 125mm and/or 1 x 20mm and/or 1 x 38mm Red retroreflective bands#
- 1 x 125mm and/or 1 x 20mm and/or С. 1 x 38mm White retroreflective bands[#]

www.safety4highways.com

- D. 1 x 125mm and/or 1 x 20mm and/or 1 x 38mm Amber retroreflective band#
- 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.)



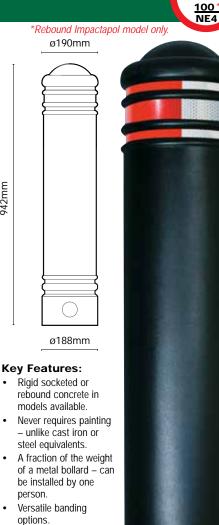
#All retroreflective materials supplied by Glasdon UK are as recommended in table NA1 of the National Annex of BS EN 12899-1 2007 Fixed Vertical Road Signs.



JubileeTM **Bollard** A traditionally styled bollard available with versatile banding options for maximum visibility.







Passively

Safe to BS EN 12767

Jubilee Colour





Passively Safe Rebound Impactapol Material

#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.

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Sign Carrying Bollards

Ensign[™], Mini Ensign[™] & Neopolitan Signhead[™] co-ordinate with Neopolitan bollards.

Passively

Safe to

BS EN 12767



cycle route bollard

Post

see Glenwood

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Order now by telephone on 01253 600411

White Mini Ensign illuminated rebound bollard with

Red/White translucent retroreflective bands.

Sign Carrying Bollard Specifications

Sign Carrying Bollard Sign Options

Ensign takes 300mm signs as standard (see below for other options) Mini Ensign takes 150mm signs as standard



* For use on the public highway these options require prior approval from the DfT. All other standard options conform fully with the TSRGD.



Neopolitan Signhead

- **Standard Price Sign Options**
- 1. Numbered Cycle Route
- 2. Waymark
- 3. Vehicles may be parked partially on verge or footway
- 4. End of area where vehicles may be parked partially on verge or footway
- 5. Vehicles may be parked wholly on verge or footway
- 6. End of area where vehicles may be parked wholly on verge or footway

Sign Carrying Bollard Colours
(Some colours are subject to a minimum order quantity.
Please telephone our Sales Office for details.)

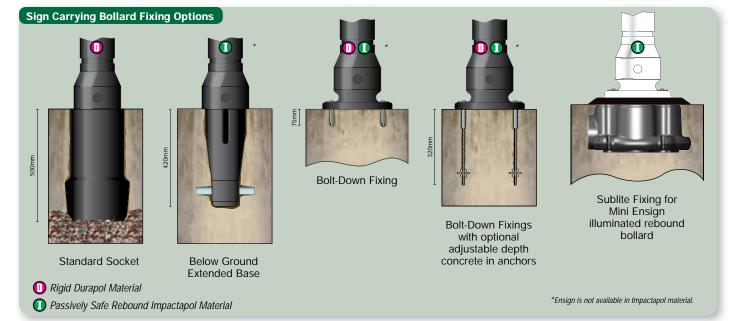


Mini Ensign illuminated rebound bollard is only available in White. Please contact us to confirm colour availability for Mini Ensign rigid model.

Sign Carrying Bollard Optional Banding



- A. 2 x 20mm Red/White retroreflective bands#
- **B.** $2 \times 20 \text{mm}$ Red retroreflective bands[#]
- C. 2 x 20mm White retroreflective bands#
- **D.** 2 x 20mm Amber retroreflective bands[#]
- E. 1 x 485mm Red/White body sleeve (3 x 150mm bands are available for use with Mini Ensign and Neopolitan Signhead Rebound models.)*
- F. 1 x 485mm Amber body sleeve (3 x 150mm bands are available for use with Mini Ensign and Neopolitan Signhead Rebound models.)*
- G. 2 x 20mm Gold decorative bands
- H. 2 x 20mm Red/White translucent retroreflective bands (for use with Mini Ensign illuminated rebound bollard)



#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

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InfomasterTM **Bollard** A narrow footprint bollard that displays landscape format signs and is easily installed and relocated.



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Buffer[™] Bollard An impact-absorbing recycled rubber bollard.



#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

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How does Chevroflex Ultra outperform traditional chevron signs?

Improved drive through performance - certified passively safe to performance standard NE3/100

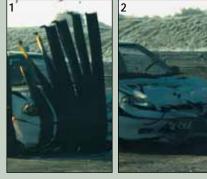
Chevroflex Ultra exceeds industry standards for motorcycle friendly, passively safe street furniture. New Impactaflex[™] material has been specially developed to offer superior rigidity and resilience combined with class-leading recovery performance after a drive-through collision.

Traditional Chevrons

Chevrolflex Ultra

After







Sca Sca

Scan to see drive-by footage of the Chevroflex Ultra Sign System.

Passively

Safe to BS EN 12767 <u>100</u> NE3

Highly visible wall effect - offers a clear indication ahead of a bend or hazard in the road. The large black uprights of Chevroflex Ultra and high visibility reflective border can be seen much earlier than traditional pole mounted metal signs, raising awareness of upcoming hazards Chevroflex Ultra is motorcycle friendly and bends on impact, significantly reducing the risk of serious injury.

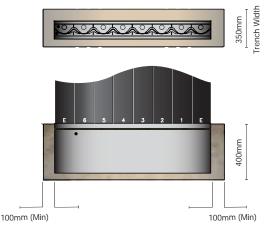




New, easy to install socket - quick and easy sign replacement.

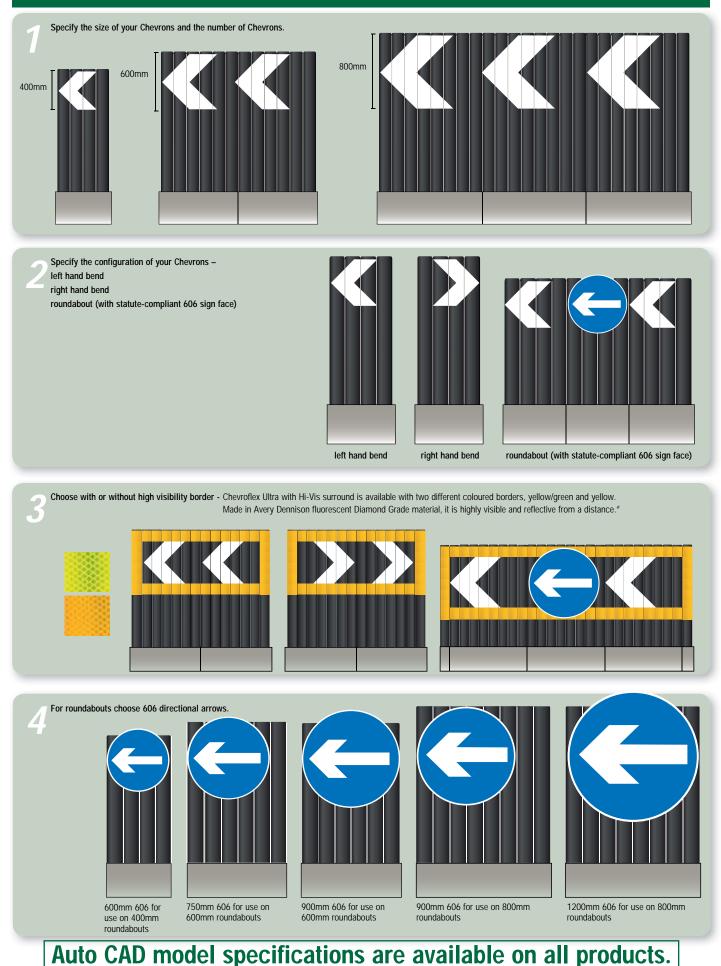
Chevroflex Ultra features an all new robust, weather resistant galvanised steel socket that allows damaged uprights to be swapped with minimum fuss. The socket and cover create a seal that prevents debris building up that would inhibit the functions of the uprights. A steel locking pin ensures the blades remain firmly fixed when impacted, but are easily removed for replacement or maintenance.





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

Configuration Options Specifying Chevroflex Ultra is simple:



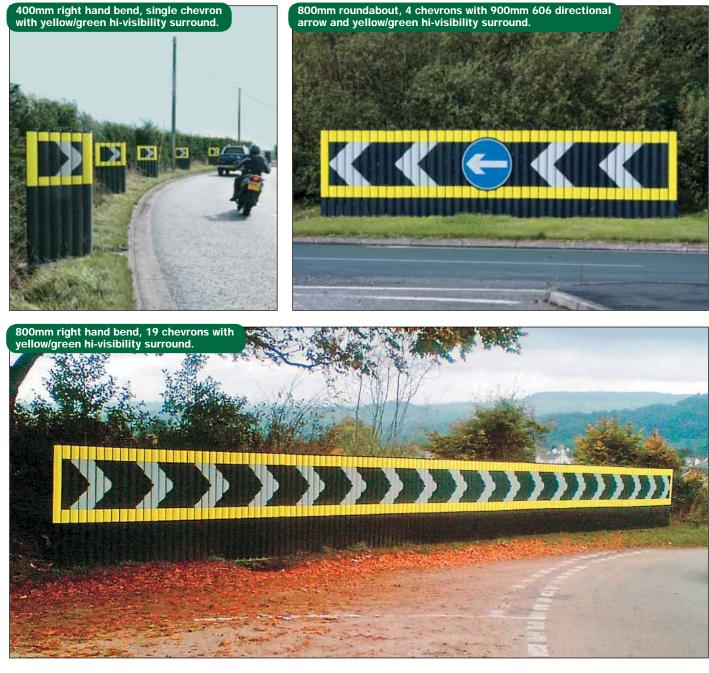
#All retroreflective materials supplied by Glasdon UK are as recommended in table NA1 of the National Annex of BS EN 12899-1 2007 Fixed Vertical Road Signs.

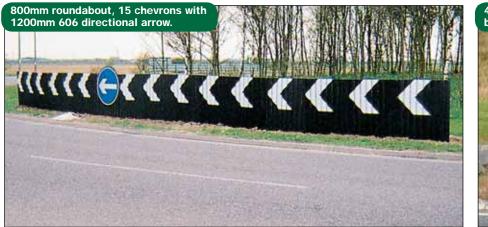
www.safety4highways.com

Order now by telephone on 01253 600411

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Chevroflex Ultra Photo Gallery







Other applications





Sublite Lumino[™] LED Uplighter

When Chevroflex is sited on a roundabout, diagram 606 sign must be illuminated.



Key Features:

- Flush ground uplighter removes the potential impact hazard created by a traditional post-mounted downlighter.
- Low energy and low maintenance only 12w power consumption.
- Highly resilient: 100% recycled Durapol® polymer IP67 rated.
- Versatile: Hinged LED plate allows adjustment after installation.Designed to withstand accidental drive-over.
- Designed to withstand accidental drive-over.



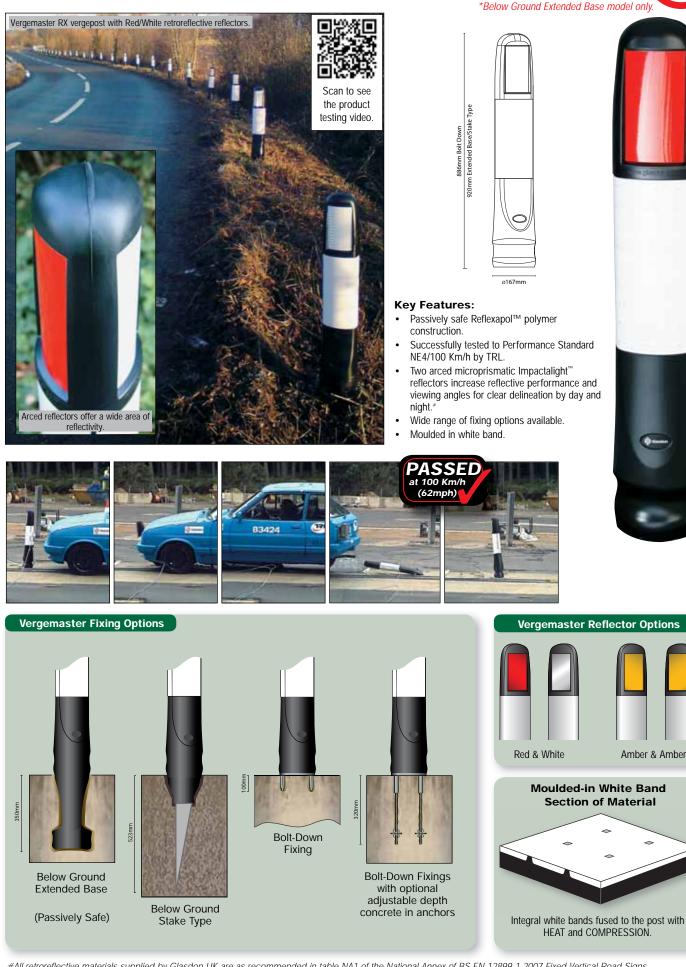
www.safety4highways.com

Vergemaster RX[®] Marker Post

A passively safe verge marker with wide-angle reflector and a choice of fixing options.

Passively Safe to BS EN 12767 <u>100 *</u> NE4





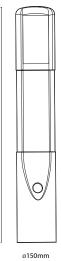
#All retroreflective materials supplied by Glasdon UK are as recommended in table NA1 of the National Annex of BS EN 12899-1 2007 Fixed Vertical Road Signs.

www.safety4highways.com

Hazardmaster[™] Marker Post A heavy-duty hazard marker designed to withstand repeated wheel-over collisions.





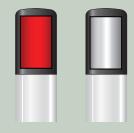


910mm

Key Features:

- Passively safe Impactapol® polymer construction for the highest risk areas.
- Performance tested to NE4/100 Km/h by TRL.
- Substantial, robust marker post.
- Two large retro reflectors provide maximum visibility.#

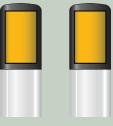
Hazardmaster Reflector Options



Red & White

Hazardmaster marker posts with Amber/Amber

retroreflective reflectors



Amber & Amber





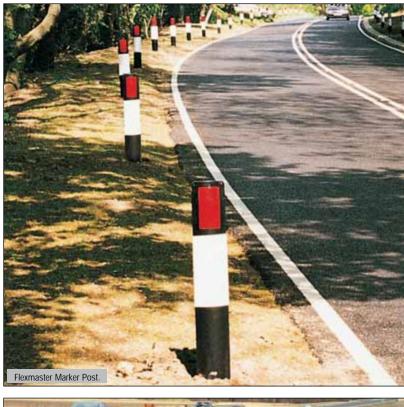
Hazardmaster marker posts with Red/White retroreflective reflectors.



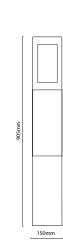
#All retroreflective materials supplied by Glasdon UK are as recommended in table NA1 of the National Annex of BS EN 12899-1 2007 Fixed Vertical Road Signs.

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Flexmaster[®] Marker Post Rebound Verge Post with versatile signing options.







Flexmaster

150mr

Lay-by Variant



Key Features:

150mm

00mm

A flexible "knock-down, spring-back" property makes Flexmaster ideal for high-risk locations.

150mm

- Manufactured from highly durable Ultraflex[™] polymer which can withstand many vehicular impacts.
- The white band and reflector provides maximum visibility.#
- Easy to install without the need for digging holes or concreting. • Versatile applications. •



www.safety4highways.com

Advanced Fixing Option (socketed)

Easy to Install





Fixing tool for standard fixing option. Designed for easy installation into soft ground

#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.

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Flexmaster[®] Marker Post Road Safety - Hazard Markers.





The versatility of the Flexmaster system offers infinite possibilities for low maintenance, high visibility signage. To discuss your requirements please telephone our dedicated highways safety sales team on (01253) 600411.



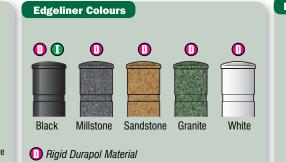


www.safety4highways.com

Edgeliner Bollard Durable mini bollards for hard or soft landscaping.







Passively Safe Rebound Impactapol Material



Below Ground Extended Base

30

Edgemaster[™] 20 Post An attractive post to protect grass verges from vehicle damage.



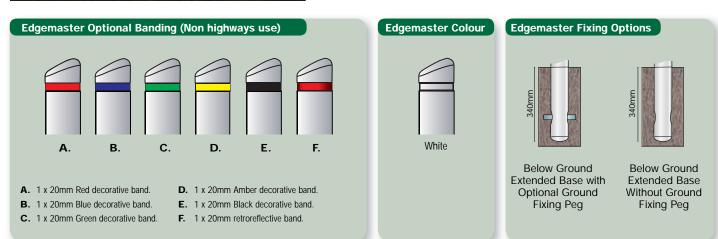






Key Features:

- 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.



#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.

www.safety4highways.com

Glasdon Gateway Ideal, Iow maintenance alternative to wood

Key Features

- Manufactured from Everwood™ material, a unique, realistic timber grain polymer that requires minimal maintenance.
- Robust, low maintenance, long-lasting.
- Numerous colour, size and layout combinations available. Legs can be cut down to any size for variable installation. •

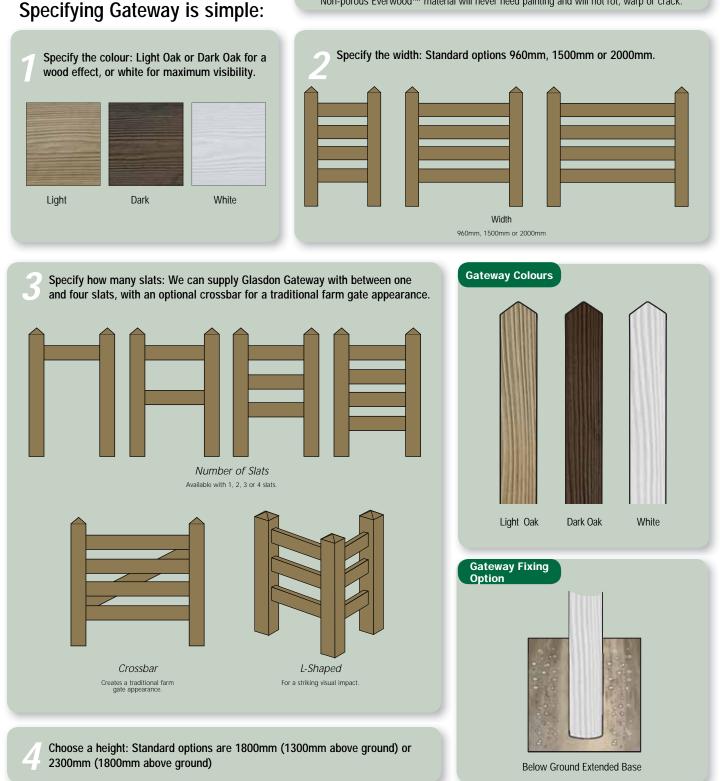


Standard wooden gateways remain popular, but without regular treatment wood will split and rot.



Gateways are often painted white to improve visibility but the paint will begin to crumble and can look unsightly.

Non-porous Everwood[™] material will never need painting and will not rot, warp or crack.

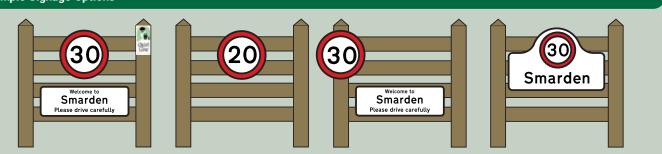


Glasdon Gateway Ideal, Iow maintenance alternative to wood





BLACKPOOI Please drive carefully



Glasdon Gateway is supplied flat pack 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 - contact us for more information.

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Glenwood" Post

A strong and robust timber effect post that requires minimal maintenance.



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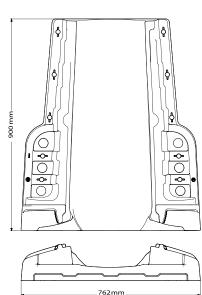
Drainagemaster[™] Drainage Grip

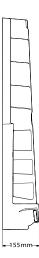
A cost effective offlet solution to the problem of surface water.



Key Features:

- Efficiently channels running and pooling water from rural road surfaces into a parallel drainage ditch.
- Robust side ridges provide extra strength to allow vehicles • to drive over the unit without damaging it.
- Quick and easy to install.
- Requires minimal maintenance - the wide, smooth surface discourages the build-up of debris, and is easily cleared with a shovel or brush.







Extension channel also available





Reflective patches are available so the unit can be easily located for maintenance checks.

Easy to Install



Prepare hole next to the road edge, Place the Drainagemaster into on a slight downward gradient. (Approximate installation time - 15 minutes)



position.



Secure with Ground Pegs.



Cold bitumen can be added between Drainagemaster and the road edge to create a watertight seal.

www.safety4highways.com





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Visit our website to see our full range of Passively Safe products, including Bollards, Hazard & Verge Markers and our Advanced Chevroflex[™] Flexible Sign System. Downloadable product literature, case studies and video clips are also available.



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However, to help offset the cost of packing, administration and delivery, there is a small charge of ± 5 on orders below the value of ± 50 .

Stasdon *, Admiral, Advanced Neopolitan, Buffer, Chevroflex, Chevroflex, Utra, Dranagemaster, Durapol, Edgemar, Edgemaster, Ensign, Enviropol, Everwood, Flexmaster, Glasdon Manchester, Glenwood, Guardsman, Hazardmuster, Impactaflex, Impactapol, Infomaster, Jubilee, LockFast, Mini Ensign, Neopolitan, Neopolitan Signeeal, Reflexand, Subire lumino, Ultraflex, Vergemaster, Vergemaster RX and Victory are trademarks or registered trademarks of GLASDON Group or its subsidiaries in the UK and other countries.

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