



BROOKS forgings
the Manufacturing & Global Sourcing Specialists



bollards

The first line of defence in property security



www.brooksbollards.co.uk

t. 01384 563356 f. 01384 563357

static | foldable | telescopic | removable

Foldable & Removable Bollards

Foldable bollards are the ideal solution for 'light' security applications such as parking reservation and driveway protection.

Removable Bollards are an ideal solution in areas requiring temporary access whilst maintaining a secure perimeter.



AR5

A foldable yellow bollard with interal lock. Lockable in both the upright and folded position.

Low cost and an effective deterrent, for use on private driveways and for parking reservation.

630mm height above ground, and features a 60mm diameter section. A ground clearance of 102mm required when post is in the down position.

Manufactured from mild steel to BS 1440, it is galvanised to BS EN ISO 1461 (1999) providing increased resistance to rust and corrosion.

Post is powder coated yellow, base is powder coated black.

Ground fixings are not supplied due to variation of ground conditions/application.



AR7

A foldable galvanised bollard. Lockable in both the upright and folded position using a **padlock (not supplied)**

Cheap and effective deterrent, for use on private driveways and for parking reservation.

780mm height above ground, and features a 60mm diameter section. A ground clearance of 102mm required.

Manufactured from mild steel to BS 1440, it is galvanised to BS EN ISO 1461 (1999) providing increased resistance to rust and corrosion.

Ground fixings are not supplied due to variation of ground conditions/application.



AR8 REMOVABLE

A black and white removable bollard which locks securely into place using a padlock (not supplied).

MEDIUM

960mm height above ground.
250mm below ground and features a 80mm square section.

LARGE

1100mm height above ground.
310mm below ground and features a 100mm square section.

Post includes rear and front amber reflectors. Post powder coated black, wrapped in reflective white band.

Manufactured from mild steel to BS 1440, it is galvanised to BS EN ISO 1461 (1999) providing increased resistance to rust and corrosion.

Standard Telescopic Bollards

Our range of standard telescopic bollards provide a secure method of protecting premises and vehicles, whilst still allowing access when required. Telescopic bollards are raised vertically and easily locked into place, using a padlock (not supplied) to provide good security and can be lowered into the ground in no time to allow vehicle access if needed.

The bollards are hot dip galvanised to BS EN ISO 1461 (1999). The AR9 is supplied powder coated yellow with a black coated base.



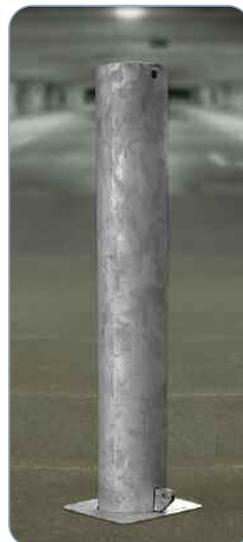
Photo: AR9 Telescopic Bollard



AR6 JUNIOR

A domestic round telescopic bollard which locks securely into place using a padlock (not supplied).

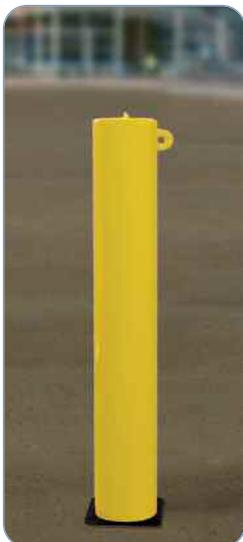
320mm height above ground, 470mm below ground and features a 90mm diameter round section.



AR6 SENIOR

A domestic round telescopic bollard which locks securely into place using a padlock (not supplied).

620mm height above ground, 770mm below ground and features a 90mm diameter round section.



AR9

A round telescopic bollard which locks securely into place using a padlock (not supplied).

620mm height above ground, 780mm below ground and features a 100mm diameter round section.



AR1

A Anti Ram telescopic bollard which locks securely into place using a padlock (not supplied).

730mm height above ground, 970mm below ground.

Post 127x76mm, 4mm thick 'H' section for maximum security.

Features an internal gas ram for easier opening.

Galvanised to BS EN ISO 1461 (1999).

Steel Bollards

Static steel bollards provide security to any landscape. The exceptional strength of steel makes it ideal for ram-raid deterrence, protected parking and the demarcation of pedestrian walkways.

Manufactured to the highest standard, the bollards are hot dip galvanised to BS EN ISO 1461 (1999). Bollards can be polyester powder coated in to standard RAL colours, and can be specified to match almost any British Standard or RAL colour on special request.

Base Specification

Our bollards are supplied in the following condition unless specified. **Photos are for illustration purposes only.**

- Galvanised to BS EN ISO 1461 (1999)
- 114mm Diameter (139mm and 168mm on request)
- Root Fixing
- No Hazard Banding

Fixing Options

Root Fixing

Bollards are supplied with a 500mm root depth as standard. The root is placed underground and secured using concrete (installation guide available). A Cross bar keys into the concrete for added strength, ensuring the bollard cannot be moved or twisted.

Lift Out and Lockable*

Bollards can be supplied in a Lift Out and Lockable version. Removable bollards allow temporary vehicle access and can be replaced when works are complete. Due to weight, 168mm diameter bollards cannot be supplied with this option.

Anti Ram Option

This makes the bollards ideal for ram raid deterrence and preventing vehicles from penetrating beyond the bollard.

Hazard Banding

Bollards can be supplied with an option of 'Class ref 2' reflective hazard banding for increased visibility and safety. Banding is available in a choice of three standard colour options; Amber, Red and White.

Powder Coating

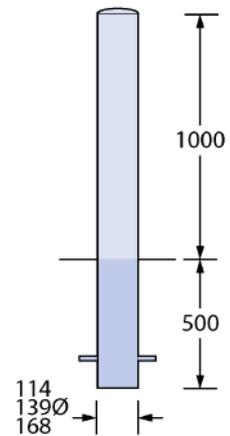
We can supply in a Polyester Powder Coated finish to various RAL colours.



Photo: AR S111 Steel Bollards with Hazard Banding

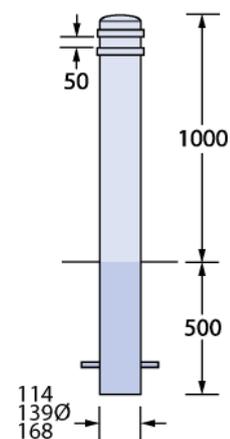
AR S101

Semi dome top plain



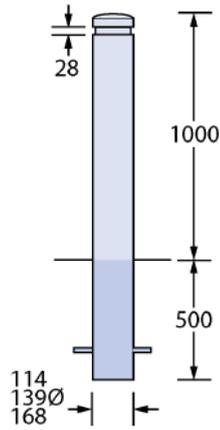
AR S105

Semi dome top double ring



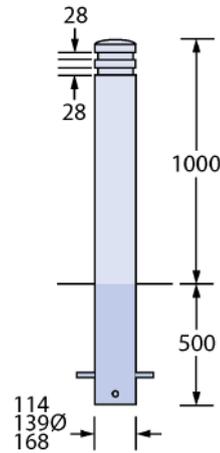
AR S109

Semi dome single indent



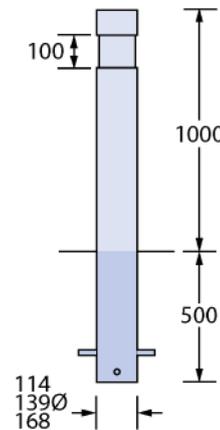
AR S111

Semi dome double indent



AR S119

Flat top large indent



AR S123

Mitre top bollard

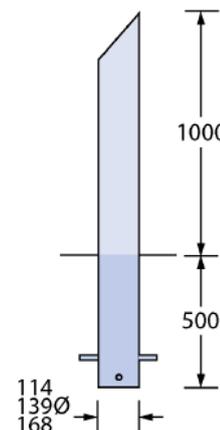
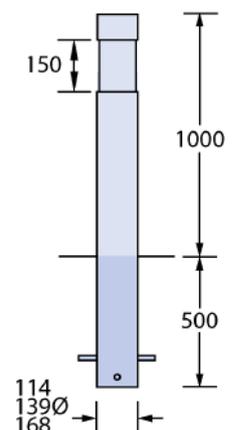


Photo: AR S105 Steel Bollards

AR S150

Flat top with single DDA band



Stainless Bollards

Stainless steel static bollards provide perimeter protection whilst also adding contemporary style and elegance to the surrounding landscape. Bollards are available in a number of modern styles, with each bollard available in a variety of length and diameter options.

Stainless steel bollards are manufactured from a carefully selected grade of 316L stainless steel (1.4401). Exceptionally strong and requiring very little maintenance, they are ideal for a wide variety of applications including pedestrian walkways and areas of protected parking. Bollards feature a 2mm wall thickness, with the exception of the AR SSM3 flat and mitre top bollards, which feature a greater 6mm thick wall for increased strength.

Base Specification

Our bollards are supplied in the following condition unless specified. **Photos are for illustration purposes only.**

- Satin Polished Finish (AR SS007 is bright polished)
- 114mm Diameter (129mm and 154mm on request)
- Root Fixing
- No Hazard Banding

Fixing Options

Root Fixing

Bollards are supplied with a 500mm root depth as standard. The root is placed underground and secured using concrete (installation guide available).

A Cross bar keys into the concrete for added strength, ensuring the bollard cannot be moved or twisted.

Lift Out and Lockable

Bollards, unless stated, can be supplied in a Lift Out and Lockable version. Removable bollards allow temporary vehicle access and can be replaced when works are complete.

Anti Ram Option

For increased strength, two internal steel tubes can be added. This makes the bollards ideal for ram raid deterrence and preventing vehicles from penetrating beyond the bollard.

Hazard Banding

Bollards can be supplied with an option of 'Class ref 2' reflective hazard banding for increased visibility and safety. Banding is available in a choice of three standard colour options; Amber, Red and White.



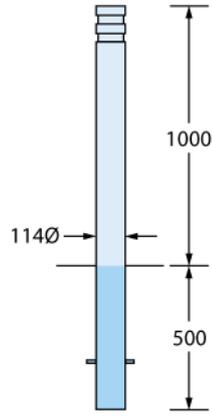
Stainless Steel Bezel

Stainless steel bezels are available in a brushed satin finish in standard diameters. They ensure that any gaps or cracking in existing paving, caused during installation, are hidden from view.



AR SS005

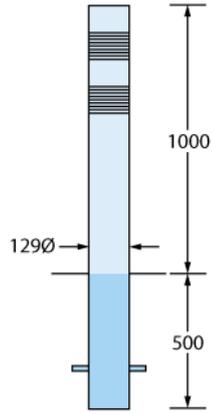
Flat top double groove



Only available in 114mm Diameter

AR SS007

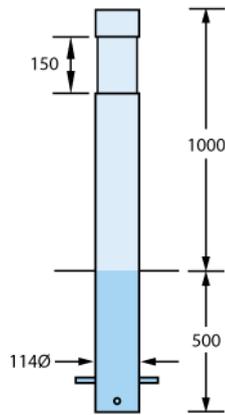
Flat top with matt bands



114, 129, 154mm Diameter Available

AR SS150

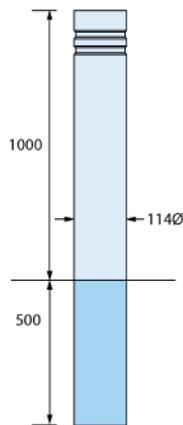
Flat top with single DDA band



114, 129, 154mm Diameter Available

AR SSM3 FLAT TOP

Flat top double grooved



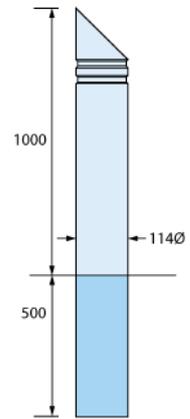
Only available in 114mm Diameter



Photo: AR SS001 Stainless Bollards

AR SSM3 MITRE TOP

Mitre top bollard double grooved



Only available in 114mm Diameter

Telescopic Bollards

Telescopic bollards provide a secure method of protecting premises and vehicles, whilst still allowing access when required. Telescopic bollards are raised vertically and easily locked into place to provide excellent security and can be lowered into the ground in no time to allow vehicle access if needed.

We provide a comprehensive range of telescopic bollards in a variety of materials, to suit any application, from domestic driveways to areas of high ram-raid risk.

Base Specification

Our bollards are supplied in the following condition unless specified. **Photos are for illustration purposes only.**

- Galvanised Finish
- No Hazard Banding

Locks and Keys

Locks can be keyed alike or to differ.

Banding Options

Single Band

A single recessed 100mm band supplied with Class 2 reflective tape. Available in either one or two colours.

Double Band

Two recessed bands supplied with Class 2 reflective tape.

Hazard Banding

For increased visibility and safety.

Powder Coating

We can supply in a Polyester Powder Coated finish to various RAL colours.

Lift Assist

Selected bollards are now available with a lift assist mechanism. Lift Assist bollards are fitted with an internal gas spring, which helps to aid manual handling and reduces the operating weight by approximately 70%.



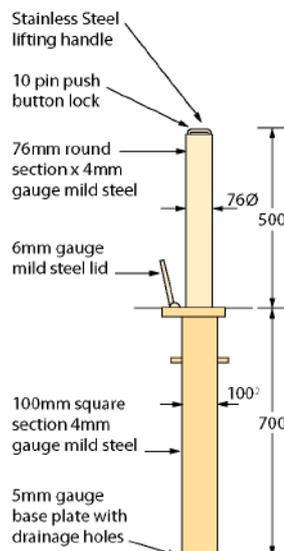
Sold Secure

The 'Sold Secure' organisation is dedicated to reducing the risk of crime through assessing the performance of security products. Sold Secure is now administered by the Master Locksmiths Association.



Selected telescopic bollards have been independently tested and certified by Sold Secure to the 'Automotive Gold' standard.

The accreditation is awarded in reference to the supplied 10 pin 'anti-drill' push button locking mechanism, which is used on selected telescopic bollards in the range.



AR RD4

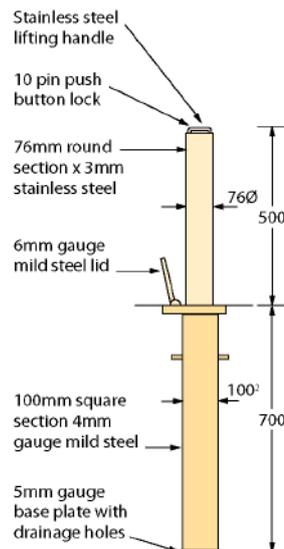
A round telescopic bollard manufactured from high strength mild steel to BS1440 and galvanised to BS EN ISO 1461 (1999).

- The bollard locks into place **500mm** above ground and is **76mm** diameter.
- Features a **10 pin push button lock**.

AR RD4 SS

A round telescopic bollard manufactured from a carefully selected grade of 316L (1.4401) stainless steel.

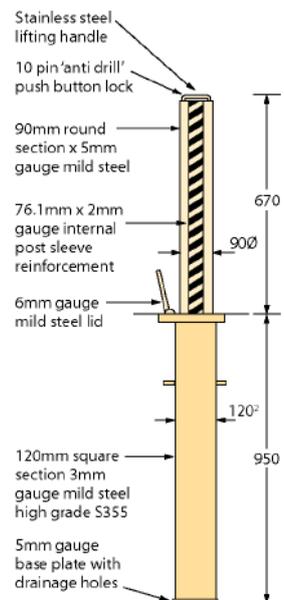
- The bollard locks into place **500mm** above ground and is **76mm** diameter.
- Features a **10 pin push button lock**.
- Offers a secure, durable and contemporary solution for domestic applications..



AR R8 HD

A round telescopic bollard manufactured from high strength mild steel to BS1440 and galvanised to BS EN ISO 1461 (1999).

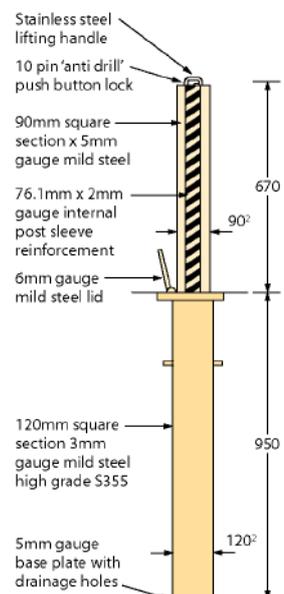
- The bollard locks into place **670mm** above ground and is **90mm** diameter.
- Features a **10 pin 'anti drill' push button lock** for added security.
- Reinforced with a **76mm x 2mm steel inner post sleeve** for enhanced performance on impact, making the bollard ideal for high risk anti ram applications.

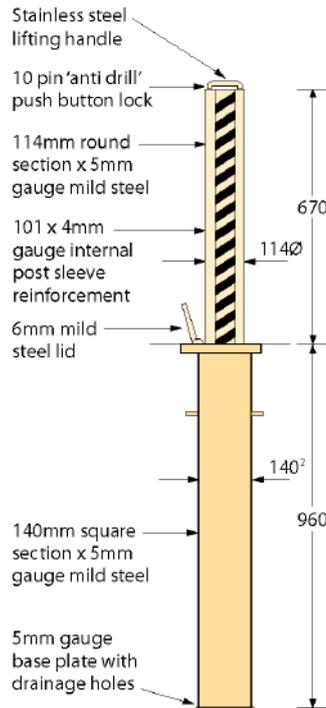
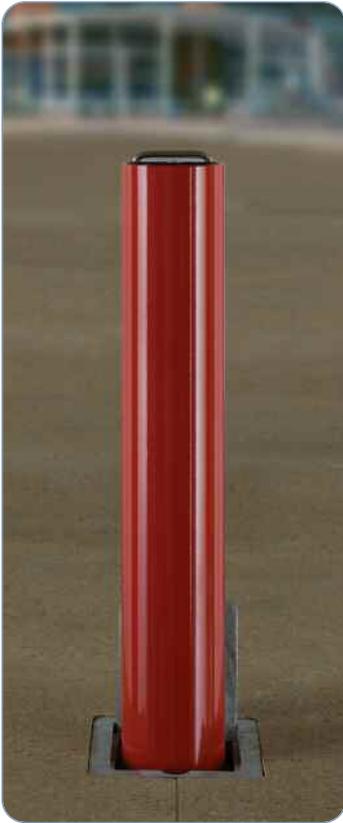


AR SQ8 HD

A square telescopic bollard manufactured from high strength mild steel to BS1440 and galvanised to BS EN ISO 1461 (1999).

- The bollard locks into place **670mm** above ground and measures **90x90mm** Square.
- Features a **10 pin 'anti drill' push button lock** for added security.
- Reinforced with a **steel inner post sleeve** for enhanced performance on impact, making the bollard ideal for high risk anti ram applications.





AR 114/670 HD

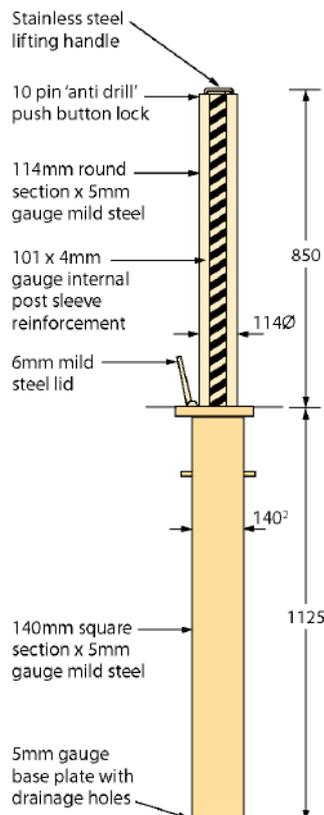
A round telescopic bollard manufactured from high strength mild steel to BS1440 and galvanised to BS EN ISO 1461 (1999).

- The bollard locks into place **670mm** above ground and features a larger **114mm diameter**.
- Features a **10 pin 'anti drill' push button lock** for added security.
- **Reinforced with a 101mm x 4mm steel inner post sleeve** for enhanced performance on impact, making the bollard ideal for high risk anti ram applications.

AR 114/670 HD with Lift Assist

Lift assist mechanism to substantially reduce the operating weight and aid manual handling.

The stainless steel gas spring reduces the lifting weight by approximately 70%, from 22.5kg to around 6-7kg.



AR R14 HD

A round telescopic bollard manufactured from high strength mild steel to BS1440 and galvanised to BS EN ISO 1461 (1999).

- Height above ground of **850mm** and diameter of **114mm**.
- Features a **10 pin 'anti drill' push button lock** for added security.
- The bollard is **reinforced as standard with a 101 x 4mm internal post sleeve** for added strength and security, making it the ideal choice for anti ram applications.

AR R14 HD with Lift Assist

Lift assist mechanism to substantially reduce the operating weight and aid manual handling.

The internal gas spring reduces the operating weight from 26.5kg to around 7kg.





Photo: AR R14 Telescopic Bollards

AR RT SS5

A round telescopic bollard manufactured from grade 316L (1.4401) stainless steel.

Supplied with a brushed satin finish, the exceptionally strong stainless steel outer is 2mm thick and is reinforced with a 90mm x 5mm steel internal post sleeve for added performance.

- The bollard locks into place **710mm** above ground and is 101mm diameter.
- Features a **10 pin 'anti drill' push button lock** for added security.

AR RT SS5 with Lift Assist

Lift assist mechanism to substantially reduce the operating weight and aid manual handling.

The internal gas spring reduces the operating weight from 26.5kg to around 7kg.

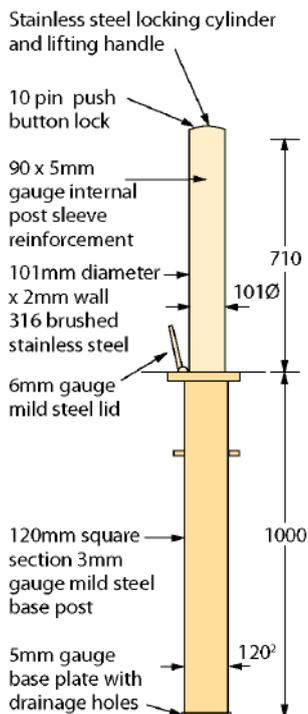


Photo: AR R8 Telescopic Bollards

Ferrocast Bollards

Ferrocast is polyurethane developed for use in the mining, quarrying and North Sea Oil Industries.

Its success in such environments make it ideal for the rigours of the modern urban environment, providing a longer maintenance free life span.

Ferrocast Bollards are cast around an internal steel core for added strength. The extremely strong, nonferrous exterior ensures that the bollards will not rust, corrode or degrade, ideal for coastal applications, where high levels of saline are present.

Supplied as standard in a black two part polyurethane coating chemically bonded to the Ferrocast. Pigment is added to the polyurethane making it the same colour as its paint finish. This ensures that chip or damage will not be visibly noticeable.

Fixing Options

Root Fixing

Bollards are supplied with a root fixing as standard. The root is placed underground and secured using concrete (installation guide available). A Cross bar keys into the concrete for added strength, ensuring the bollard cannot be moved or twisted.

Lift Out and Lockable

Bollards can be supplied in a Lift Out and Lockable version. Removable bollards allow temporary vehicle access and can be replaced when works are complete.

Anti Ram Option

For applications requiring maximum security. Anti ram bollards are moulded around several steel inner cores for increased strength and optimum performance on impact. This option is a popular choice for many superstores, retail parks and supermarkets.

Colours

A full range of RAL colours are available for bulk orders.



Cheltenham

Diameter: 165mm Round
Overall Length: 1520mm
Height Above Ground: 1220mm
Weight: 20KG



City

Diameter: 145mm Round
Overall Length: 1250mm
Height Above Ground: 950mm
Weight: 24KG



Clapham

Diameter: 125mm Round
Overall Length: 1300mm
Height Above Ground: 1000mm
Weight: 15KG



Cornwall

Diameter: 124mm Round
Overall Length: 1395mm
Height Above Ground: 1095mm
Weight: 17KG



Deansgate

Diameter: 115mm Round
Overall Length: 1440mm
Height Above Ground: 1140mm
Weight: 21KG



Manchester

Diameter: 225mm Round
Overall Length: 1265mm
Height Above Ground: 965mm
Weight: 21KG



East Sussex

Diameter: 168mm Round
Overall Length: 1215mm
Height Above Ground: 915mm
Weight: 17KG



Morpeth

Diameter: 110mm Round
Overall Length: 1200mm
Height Above Ground: 900mm
Weight: 12KG



Hackney

Diameter: 155mm Round
Overall Length: 1270mm
Height Above Ground: 970mm
Weight: 20KG



Stockport

Diameter: 190mm Round
Overall Length: 1515mm
Height Above Ground: 1215mm
Weight: 35KG



Hexham

Diameter: 175mm Round
Overall Length: 1217mm
Height Above Ground: 917mm
Weight: 22KG



Wolverhampton

Diameter: 114mm Round
Overall Length: 1300mm
Height Above Ground: 1000mm
Weight: 16KG

Wooden Bollards

Brooks Wooden Bollards are available in a variety of shapes and sizes.

Their type varies according to their uses - from simple light weight timber bollards for demarcation purposes, separating pedestrians from traffic or for protecting vulnerable points like corners of buildings that could be accidentally hit by vehicles.

Pressure Treated to BS EN 599 PART 1 and BS EN 335.

Reflectors

Reflectors can be supplied at extra cost.
75x46mm in size. Available in White, Amber and Red.
Fitting kit included.

Pressure Treated

Our supplier uses a unique ISO 9001 accredited process that allows preservative to penetrate deep into the timber through total immersion and vacuum pressure.



ARW1

A 150x150x1200mm Wooden Bollard with **grooved top detail**.

Pressure Treated to BS EN 599 PART 1 and BS EN 335.



ARW2

A 150x150x1200mm Plain Wooden Bollard.

Pressure Treated to BS EN 599 PART 1 and BS EN 335.



ARW3

A 150DIAX900mm Wooden Bollard with **grooved top detail**.

Pressure Treated to BS EN 599 PART 1 and BS EN 335.



ARW4

A 95x95x600mm Wooden 'Verge' Bollard with **grooved top detail**.

Base includes ground spike for easy installation.

Pressure Treated to BS EN 599 PART 1 and BS EN 335.



ARW5

A 150x150x900mm Wooden Bollard with **grooved top detail**.

Pressure Treated to BS EN 599 PART 1 and BS EN 335.



Photo: ARW4 Verge Bollards with Amber Reflectors.

Installation Instructions

Standard Root Fixing Bollard Installation

Root depth varies across our range of static bollards from 200mm-500mm depending on model. For details on root depths please refer to individual product pages.

1. Determine where the bollard is to be situated.
2. Check utilities/services drawings and perform a visual inspection to ensure there are none in the area. This may also require scanning the location for live cabling.
3. Excavate a cube in the substrate according to the bollard's specification. For example, a bollard with a 300mm root depth will require a cube to be excavated measuring 300mm x 300mm, fixed on the post centre, by 300mm deep.
4. Locate the bollard centrally into the hole and fill with grade C30 concrete, medium slump, including a rapid hardening agent if required.
5. Ensure the bollard is vertical in all planes.
6. Reinststate any surface finishes disturbed by the bollard. Where necessary, rinse off any concrete residue from the base of the bollard with a soft cloth and water, taking care not to scratch the surface of the bollard.
7. Finish off top surface of in situ concrete to give a tight surface finish. Concrete should be protected by polythene during the first 24-hours following installation. This is particularly important during inclement and/or cold weather. Units should not be used until the concrete has cured.

Anti-Ram Bollard Installation

1. Determine where the bollard is to be situated.
2. Check utilities/services drawings and perform a visual inspection to ensure there are none in the area. This may also require scanning the location for live cabling.
3. Excavate a cube in the substrate according to the bollard's specification. For example, anti-ram bollards require a cube no less than 500mm x 500mm fixed on the post centre, by 600mm deep.
4. Where applicable, ensure the root cross bar is inserted through the core.
5. Locate the bollard centrally into the hole and fill with grade C30 concrete, medium slump, including a rapid hardening agent if required.
6. Ensure the bollard is vertical in all planes.
7. Reinststate any surface finishes disturbed by the bollard. Where necessary, rinse off any concrete residue from the base of the bollard with a soft cloth and water, taking care not to scratch the surface of the bollard.
8. Finish off top surface of in situ concrete to give a tight surface finish. Concrete should be protected by polythene during the first 24-hours following installation. This is particularly important during inclement and/or cold weather. Units should not be used until the concrete has cured.

Lift Out and Lockable Bollard Installation

1. Determine where the bollard is to be situated.
2. Check utilities/services drawings and perform a visual inspection to ensure there are none in the area. This may also require scanning the location for live cabling.
3. Excavate a cube in the substrate according to the bollard's specification. For example, Lift Out and Lockable bollards require a cube no less than 400mm x 400mm, fixed on the post centre, by 400mm deep.
4. Where applicable, ensure the root cross bar is inserted through the core of the socket.
5. Locate the socket centrally in the hole and fill with grade C30 concrete, medium slump, including a rapid hardening agent if required.
6. Ensure the socket is vertical in all planes.
7. Reinststate any surface finishes disturbed by the bollard. Where necessary, rinse off any residue concrete from base of bollard with a soft cloth and water, taking care not to scratch the surface of the bollard.
8. Finish off top surface of in situ concrete to give a tight surface finish. Concrete should be protected by polythene during the first 24-hours following installation. This is particularly important during inclement and/or cold weather. Units should not be used until the concrete has cured.

Telescopic Bollard Installation

1. Determine where the bollard is to be situated.
2. Check utilities/services drawings and perform a visual inspection to ensure there are none in the area. This may also require scanning the location for live cabling.
3. Excavate a cube in the substrate approximately 300mm x 300mm and 200mm deeper than the ground socket to be installed.
4. Put approximately 200mm of minimum 15mm clean loose stone into the hole for drainage purposes.
5. Lower the ground socket into the hole and check the top of ground socket is approximately 5mm above ground level.
6. Locate the ground socket centrally in the hole and ensure socket is vertical in all planes.
7. Add approximately 200mm of clean loose stone.
8. Back fill the hole, tamping down until approximately 300mm from the surface.
9. Raise telescopic bollard and check for alignment (if more than one post is to be installed).
10. Then fill the hole with grade C30 concrete, including a rapid hardening agent and sulphate resisting cement as required, medium slump and smooth off the area around the lid to allow fall away.
11. Lower the telescopic bollard into the ground socket. Please ensure the bollard and lid are kept clear of debris during installation.
12. Finish off top surface of in situ concrete to give a tight surface finish. Concrete should be protected by polythene during the first 24-hours following installation. This is particularly important during inclement and/or cold weather. Units should not be used until the concrete has cured.



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