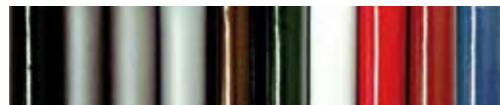


# Fixed and removable bollards

## For fixed and removable bollards and posts

|         |               |
|---------|---------------|
| TPRALBF | RAL 4 numbers |
|---------|---------------|



## Other colours excluding RAL

|       |            |
|-------|------------|
| TPUGA | Dark grey  |
| TPUGR | Steel grey |

## Example of a removable bollard



1. Unlock

2. Turn

3. Lift

Fixed bollards and posts are used in both public and private settings to restrict traffic flows, parking or simply to protect areas from vehicle access. Urbaco uses cast iron, steel and inox steel to make its products.



# The Fixator<sup>®</sup> system, an Urbaco patent

Removable bollards and posts are a simple, economical and effective way of managing access-ways that are only occasionally opened. The Urbaco patented Fixator<sup>®</sup> system consists of manually removable bollards and posts. The Fixator<sup>®</sup> and the cover are sold separately from the bollard. The male sleeve (the lower part) can be purchased separately to create removable posts and supports.

By turning the key, the bollard is released and can be removed from its housing. The Fixator<sup>®</sup> cover is replaced at the end to free both the way and the area. The Fixator<sup>®</sup> is installed in cement at the same level as the upper part. The impact resistance of these products depends on how well the Fixator<sup>®</sup> has been fixed to the ground.

# Accessories for removable bollards and posts

| Fixator <sup>®</sup> for removable Bollards and Posts  |                |        |             |
|--|----------------|--------|-------------|
| Fixator <sup>®</sup> (steeled cast iron)   | Print          | Weight | Item code   |
| Fixator <sup>®</sup> with release, key, coverless  | 11 mm Triangle | 9 kg   | BOFIXP11S   |
| Fixator <sup>®</sup> with release, key, coverless  | 14 mm Triangle | 9 kg   | BOFIXP14S   |
| Fixator <sup>®</sup> with release, key, coverless  | Half moon      | 9 kg   | BOFIXPDL    |
| Fixator <sup>®</sup> with release, coverless   | Without        | 6 kg   | BOFIXCS     |
| Stainless steel ground fixing, closing system with ground lock, with cover   | 11 mm Triangle | -      | BOFIXSIB    |
| Base to be cemented alone, for stainless steel bollard and post, Ø 76 and 114 mm, closing system with lock on bollard  | -              | -      | EMBS100INOX |
| Base to be cemented alone, for stainless steel bollard and post, Ø 200 and 250 mm, closing system with lock on bollard | -              | -      | EMBS200INOX |



Fixator<sup>®</sup> without release



Fixator<sup>®</sup> with release

| Sleeve            |                 |           |
|-------------------|-----------------|-----------|
| Material          | Weight in kilos | Item code |
| Steeled cast iron | 3,8             | BOMACF    |



| Cover for Fixator <sup>®</sup> |                 |           |
|--------------------------------|-----------------|-----------|
| Material                       | Weight in kilos | Item code |
| Steeled cast iron              | 2,9             | BOFIXCOF  |



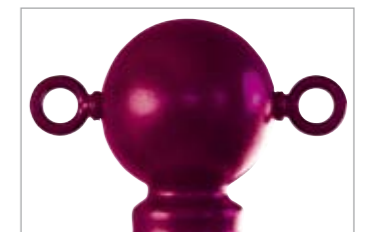
| Keys for removable Bollards and Posts |        |             |           |           |
|---------------------------------------|--------|-------------|-----------|-----------|
| KEYS                                  | Length | Print       | Material  | Item code |
| Service                               | 140 mm | Triangle 11 | Cast iron | BOCLES11  |
| Service                               | 140 mm | Triangle 14 | Cast iron | BOCLES14  |
| Service                               | 140 mm | Half moon   | Cast iron | BOCLES1DL |



| Reflective bands only<br>for Generation 6 removable bollards and posts excluding Vendome |           |
|--|-----------|
| Colour   | Item code |
| White  | BOBRB     |
| Yellow   | BOBRJ     |
| Red  | BOBRR     |



| Eyelets   |           |
|---|-----------|
|   | Item code |
| 1 fixed eyelet on bollard or post (except Vendome, Mistral and Demoiselle models)       | BOCHAAM1  |
| 2 180° fixed eyelets on bollard or post (except Vendome, Mistral and Demoiselle models) | BOCHAAM2  |
| 2 90° fixed eyelets on bollard or post (except Vendome, Mistral and Demoiselle models)  | BOCHAAM3  |



| Carabiners            |           |
|-----------------------|-----------|
|                       | Item code |
| 14 diameter carabiner | RCHAM14   |



| Chains   |           |
|--|-----------|
|  | Item code |
| Galvanised, non-varnished, 14 diameter, per metre                      | RCHA14N   |
| Chain with galvanised varnish (RAL of your choice) diameter 14, per ml | RCHA14P   |



\*Provide length of segments on order – maximum length per segment: 6ML

# Generation 6 Fixed and removable bollards

Fixed bollards and posts are used in both public and private settings to restrict traffic flows, parking or simply to protect areas from vehicle access. Urbaco uses cast iron, steel and inox steel to make its products. Removable bollards and posts are a simple, economical and effective way of managing access-ways that are only occasionally opened. They are identical in shape and dimensions to automatic retractable and mechanical bollards. Removable bollards allow you to easily coordinate the aesthetics in terms of both access-way control in public and private areas and for urban setting management. The 120 mm diameter Chateaufort version is also available with the rounded top which smoothens the originally squarish lines. The control units also conform to the fixed, energy dispensing posts.



Example of a removable bollard



1. Release 2. Turn 3. Remove

### Models

5 different models are offered. Grey cast iron or nodular cast iron, with an average length of 11mm, for the Chateaufort models.  
- 3 diameters: 120 mm, 200 mm, 250 mm  
- 2 heights: 500 and 750 mm for the Chateaufort models (rounded top)

### Surface finish and colours

Zinc is the primary standard coating which provides better adherence for the finishing coat, using a powder based, polyester thermo-hardening matt varnish, in standard RAL 7016 dark grey

The Urbaco patented Fixator® system consists of manually removable bollards. Once the bollard has been removed, a cover frees the way and area. The Fixator® is cemented to the ground. Its resistance to impacts depends on how well it is fixed to the ground and the dimensions of the installation area

\*G Nodular cast Iron (SG)  
\*F Lamellar cast iron (LG)



| Cylinder             |                        |        | Fixed     | Removable |
|----------------------|------------------------|--------|-----------|-----------|
| Commercial reference |                        |        | Codes     | Codes     |
| Diameter             | Height from the ground | Weight |           |           |
| 250                  | 500                    | 46 kg  | BSCLPF50G | BACLPF50G |
| 250                  | 750                    | 68 kg  | BSCLPF75G | -         |
| 200                  | 500                    | 33 kg  | BSCLPE50G | BACLPE50G |
| 200                  | 750                    | 47 kg  | BSCLPE75G | -         |
| 120                  | 500                    | 18 kg  | BSCLPD50G | BACLPD50G |
| 120                  | 750                    | 26 kg  | BSCLPD75G | BACLPD75G |

| Acropole             |                        |        | Fixed     | Removable |
|----------------------|------------------------|--------|-----------|-----------|
| Commercial reference |                        |        | Codes     | Codes     |
| Diameter             | Height from the ground | Weight |           |           |
| 250                  | 500                    | 46 kg  | BSACEF50G | BAACEF50G |
| 250                  | 750                    | 68 kg  | BSACEF75G | -         |
| 200                  | 500                    | 34 kg  | BSACEE50G | BAACEE50G |
| 200                  | 750                    | 36 kg  | BSACEE75G | -         |
| 120                  | 500                    | 20 kg  | BSACED50G | BAACED50G |
| 120                  | 750                    | 26 kg  | BSACED75G | BAACED75G |

| Athéna               |                        |        | Fixed     | Removable |
|----------------------|------------------------|--------|-----------|-----------|
| Commercial reference |                        |        | Codes     | Codes     |
| Diameter             | Height from the ground | Weight |           |           |
| 250                  | 500                    | 45 kg  | BSATNF50G | BAATNF50G |
| 250                  | 750                    | 62 kg  | BSATNF75G | -         |
| 200                  | 500                    | 34 kg  | BSATNE50G | BAATNE50G |
| 200                  | 750                    | 36 kg  | BSATNE75G | -         |
| 120                  | 500                    | 18 kg  | BSATND50F | -         |
| 120                  | 750                    | 26 kg  | BSATND75F | -         |
| 120                  | 500                    | 20 kg  | BSATND50G | BAATND50G |
| 120                  | 750                    | 24 kg  | BSATND75G | BAATND75G |

| Châteaufort          |                        |        | Fixed     | Removable |
|----------------------|------------------------|--------|-----------|-----------|
| Commercial reference |                        |        | Codes     | Codes     |
| Diameter             | Height from the ground | Weight |           |           |
| 250                  | 500                    | 53 kg  | BSCHPF50G | BACHPF50G |
| 250                  | 750                    | 72 kg  | BSCHPF75G | -         |
| 200                  | 500                    | 32 kg  | BSCHPE50G | BACHPE50G |
| 200                  | 750                    | 45 kg  | BSCHPE75G | -         |
| 120                  | 500                    | 17 kg  | BSCHPD50F | -         |
| 120                  | 750                    | 24 kg  | BSCHPD75F | -         |
| 120                  | 500                    | 17 kg  | BSCHPD50G | BACHPD50G |
| 120                  | 750                    | 24 kg  | BSCHPD75G | BACHPD75G |

| Châteaufort          |                        |        | Fixed     | Removable |
|----------------------|------------------------|--------|-----------|-----------|
| Commercial reference |                        |        | Codes     | Codes     |
| Diameter             | Height from the ground | Weight |           |           |
| 120                  | 550                    | 17 kg  | BSCHTD55F | BACHTD55F |
| 120                  | 550                    | 18 kg  | BSCHTD55G | BACHTD55G |
| 120                  | 750                    | 22 kg  | BSCHTD75F | BACHTD75F |
| 120                  | 750                    | 22 kg  | BSCHTD75G | BACHTD75G |
| 120                  | 950                    | 27 kg  | BSCHTD95G | BACHTD95G |
| 120                  | 750                    | 26 kg  | BSCLPD75G | BACLPD75G |



Flat top Chateaufort



Rounded top Chateaufort





# Ovalie Fixed and removable bollards

Fixed bollards are used in both public and private settings to restrict traffic flows, parking or simply to protect areas from vehicle access where these are not authorised. Urbaco uses cast iron, steel and inox steel to make its products. Removable bollards and posts are a simple, economical and effective way of managing access-ways that are only occasionally opened.

## Ovalie

This model, with its modern, simple design fits perfectly into any urban setting. It essentially features an oval shape which gives it an elegant silhouette, which fully respects Urbaco's solidly built product.

Example of a removable bollard



1. Release 2. Turn 3. Remove

## Models

The Ovalie model is sold in grey, laminated and nodular, 11 mm thick cast iron.  
- 1 one size only: 120 mm x 80 mm  
- 2 heights: 500 mm and 750 mm

## Surface finish and colours

Zinc is the primary standard coating which provides better adherence for the finishing coat, using a powder based, polyester thermo-hardening matt varnish, in standard RAL 7016 dark grey

The Urbaco patented Fixator® system consists of manually removable bollards. Once the bollard has been removed, a cover frees the way and area. The Fixator® is cemented to the ground. Its resistance to impacts depends on how well it is fixed to the ground and the dimensions of the installation area

\*G Nodular cast Iron (SG)  
\*F Lamellar cast iron (LG)

# Arlesiennes Fixed and removable bollards

Fixed bollards are used in both public and private settings to restrict traffic flows, parking or simply to protect areas from vehicle access where these are not authorised. Urbaco uses cast iron, steel and inox steel to make its products. Removable bollards and posts are a simple, economical and effective way of managing access-ways that are only occasionally opened.

## Arlésiennes

Architects prefer this model, for French buildings due to its timeless, classic yet contemporary design. Urbaco's Arlesienne bollard, already installed in several prestigious sites, can also be fitted with a chain.

Example of a removable bollard



1. Release 2. Turn 3. Remove

## Models

Sold in two different models. Either grey or nodular 11mm thick cast iron.  
- 2 diameters: 180 mm, 240 mm  
- 2 heights: 600 mm, 700 mm

## Surface finish and colours

Zinc is the primary standard coating which provides better adherence for the finishing coat, using a powder based, polyester thermo-hardening matt varnish, in standard RAL 7016 dark grey

The Urbaco patented Fixator® system consists of manually removable bollards. Once the bollard has been removed, a cover frees the way and area. The Fixator® is cemented to the ground. Its resistance to impacts depends on how well it is fixed to the ground and the dimensions of the installation area

\*G Nodular cast Iron (SG)  
\*F Lamellar cast iron (LG)



| Ovalie               |                        |        | Fixed    | Removable |
|----------------------|------------------------|--------|----------|-----------|
| Commercial reference |                        |        |          |           |
| Diameter             | Height from the ground | Weight | Codes    | Codes     |
| 120                  | 500                    | 14 kg  | BSOVL50G | BAOVL50F  |
| 120                  | 750                    | 20 kg  | BSOVL75G | BAOVL75F  |



| Arlésiennes          |                        |        | Fixed     | Removable | To be bolted |
|----------------------|------------------------|--------|-----------|-----------|--------------|
| Commercial reference |                        |        |           |           |              |
| Diameter             | Height from the ground | Weight | Codes     | Codes     | Codes        |
| 240                  | 700                    | 32 kg  | BSALSE70F | BAALSE70F | -            |
| 240                  | 700                    | 33 kg  | BSALSE70G | BAALSE70G | -            |
| 240                  | 900                    | 45 kg  | -         | -         | BBALSE90F    |
| 180                  | 600                    | 24 kg  | BSALSD60F | BAALSD60F | -            |
| 180                  | 600                    | 25 kg  | BSALSD60G | BAALSD60G | -            |
| 155                  | 290                    | 12 kg  | BSALSD29G | BAALSD29G | -            |



Option version with rings and chains

Special products!

# Cabestan Fixed and removable bollards

Fixed bollards are used in both public and private settings to restrict traffic flows, parking or simply to protect areas from vehicle access where these are not authorised. Urbaco uses cast iron, steel and inox steel to make its products. Removable bollards and posts are a simple, economical and effective way of managing access-ways that are only occasionally opened.

**Cabestan**  
The particularly attractive and original shape of the Cabestan model make it a "best seller" among the classics. It comes in several heights and is especially suited and appreciated by coastal cities for use on waterfronts, ports, dams and other waterways, canals and lakes.

Example of a removable bollard



1. Release 2. Turn 3. Remove

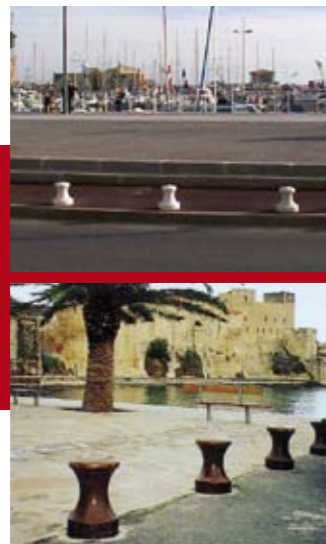
### The models

It is sold in 4 different models.  
In grey or nodular cast iron to be cemented or removable:  
- diameters: 270 mm (for the Cabestan bollard, height 310 mm and 250 mm  
- 4 heights: 310 mm, 380 mm and 470 mm and 740 mm

### Surface finish and colours

Zinc is the primary standard coating which provides better adherence for the finishing coat, using a powder based, polyester thermo-hardening matt varnish, in standard RAL 7016 dark grey

The Urbaco patented Fixator® system consists of manually removable bollards. Once the bollard has been removed, a cover frees the way and area. The Fixator® is cemented to the ground. Its resistance to impacts depends on how well it is fixed to the ground and the dimensions of the installation area



| Cabestan             |                        |        | Fixed         | Removable     |
|----------------------|------------------------|--------|---------------|---------------|
| Commercial reference |                        |        | Codes         | Codes         |
| Diameter             | Height from the ground | Weight |               |               |
| 270                  | 310                    | 28 kg  | BSCBTF31F / G | BACBTF31F / G |
| 250                  | 380                    | 29 kg  | BSCTBF38F     | BACTBF38F     |
| 250                  | 470                    | 35 kg  | BSCBTF47F / G | BACBTF47F / G |
| 250                  | 570                    | 44 kg  | BSCBTF57F / G | BACBTF57F / G |

# Spheres and Demi-Spheres Fixed and removable bollards

Bollards are used in both public and private settings to restrict traffic flows, parking or simply to protect areas from vehicle access where these are not authorised. Urbaco uses cast iron, steel and inox steel to make its products. Removable bollards and posts are a simple, economical and effective way of managing access-ways that are only occasionally opened.

**Sphère**  
Well rounded, the Sphere and Demi-sphere models are suitable in any setting, whether current or classic. They give the city a soft, attractive touch along river banks and passage ways.



Sphere diameter 250 mm, is only available in the fixed version  
Sphere diameter 300 mm  
Sphere diameter 400 mm

| Sphères              |                  |         | Fixes     | Removable | Type        |
|----------------------|------------------|---------|-----------|-----------|-------------|
| Commercial reference |                  |         | Codes     | Codes     | Codes       |
| Diamètre             | Hauteur hors sol | Poids   |           |           |             |
| 400                  | 200              | 24 kg   | BSDMSH    | -         | Demi-sphère |
| 400                  | 400              | 46 kg   | BSSPHG40F | -         | Sphère      |
| 300                  | 300              | 34 kg   | BSSPHG30G | BASPHG30G | Sphère      |
| 250                  | 250              | 10,2 kg | BSSPHG25F | -         | Sphère      |
| 200                  | 100              | 5,3 kg  | BSDMSE    | -         | Demi-sphère |

\*made of aluminium alloy

Example of a removable bollard



1. Release 2. Turn 3. Remove

### Models

It comes in 5 different models.  
Grey or nodular cast iron  
- 4 diameters: 200 mm, 250 mm, 300 mm and 400 mm  
- 4 heights from the ground: 100 mm, 250 mm, 300 mm and 400 mm

### Surface finish and colours

Zinc is the primary standard coating which provides better adherence for the finishing coat, using a powder based, polyester thermo-hardening matt varnish, in standard RAL 7016 dark grey

The Urbaco patented Fixator® system consists of manually removable bollards. Once the bollard has been removed, a cover frees the way and area. The Fixator® is cemented to the ground. Its resistance to impacts depends on how well it is fixed to the ground and the dimensions of the installation area



\*G Nodular cast iron (SG)  
\*F Lamellar cast iron (LG)



Demi-sphère diameter 200 mm



Demi-sphère diameter 400 mm



# Vendôme Fixed and removable bollards

Bollards are used in both public and private settings to restrict traffic flows, parking or simply to protect areas from vehicle access where these are not authorised. Urbaco uses cast iron, steel and inox steel to make its products. Removable bollards and posts are a simple, economical and effective way of managing access-ways that are only occasionally opened.

## Vendôme

The Vendôme model is ideal in modern, contemporary architectural settings. It fits perfectly in historical town centres and areas subjected to corrosive agents. It is also ideal for indoor decorating.



| Vendôme              |                        |        | Fixed       | Removable   |
|----------------------|------------------------|--------|-------------|-------------|
| Commercial reference |                        |        | Codes       | Codes       |
| Diameter             | Height from the ground | Weight |             |             |
| 155 mm               | 500 mm                 | -      | BSVDMD50I   | BAVDMD50I   |
| 155 mm               | 750 mm                 | -      | BSVDMD75I   | BAVDMD75I   |
| 200 mm               | 500 mm                 | -      | BSVDME50S** | BAVDME50S** |
| 200 mm               | 750 mm                 | -      | BSVDME75S** | BAVDME75S** |
| 220 mm               | 500 mm                 | -      | BSVDME50I   | BAVDME50I   |
| 220 mm               | 750 mm                 | -      | BSVDME75I   | BAVDME75I   |
| 250 mm               | 500 mm                 | -      | BSVDMF50S** | BAVDMF50S** |
| 250 mm               | 750 mm                 | -      | BSVDMF75S** | BAVDMF75S** |

\*\*New Range

## Models

It comes in two models, 1.5 mm thick Inox 316L  
 - with lock on the bollard (new range)  
 - with lock on ground  
 - 4 diameters: 155 / 22 / 220 / 250 mm  
 - 2 heights: 500 / 750 mm

## Surface finish and colours

Made of Inox 316L the Vendôme posts and bollards are finished in PG 320 and one passivation

Ground lock system

Lock system from the top of bollard

Some Vendôme models are also available with the rounded top. Ask us.

# Mistral Fixed bollard

Bollards are used in both public and private settings to restrict traffic flows, parking or simply to protect areas from vehicle access where these are not authorised. Urbaco uses cast iron, steel and inox steel to make its products. Removable bollards and posts are a simple, economical and effective way of managing low-volume access-ways on a low budget.

## Mistral

Its sombre, neutral design and its perfectly smooth surface make Mistral the model which discretely fits into any context, regardless of any architectural or urban planning requirements. Discretion and efficacy are its strong points.



| Mistral              |                        |              |        | Fixed        |
|----------------------|------------------------|--------------|--------|--------------|
| Commercial reference |                        |              |        | Codes        |
| Diameter             | Height from the ground | Total height | Weight |              |
| 139                  | 900                    | 1200         | 17 kg  | BSMISD90AB*  |
| 193                  | 500/600                | 750          | 29 kg  | BSMISE50AB*  |
| 244                  | 500/600                | 750          | 33 kg  | BSMISF50AB*  |
| 139                  | 900                    | 1200         | 17 kg  | BSMISD90AP** |
| 193                  | 500/600                | 750          | 29 kg  | BSMISE50AP** |
| 244                  | 500/600                | 750          | 33 kg  | BSMISF50AP** |
| 244                  | 900                    | 1200         | 53 kg  | BSMISF90AB*  |
| 244                  | 900                    | 1200         | 53 kg  | BSMISF90AP** |

\*rounded top

\*\*flat top

## Surface finish and colours

Zinc si the primary standard coating which provides better adherence fo the finishing coat, using a powder based, polyester thermo-hardening matt varnish, in standard RAL 7016 dark grey



One model, two different aesthetic approaches: flat top, rounded top. The Mistral bollard is employed to protect shop windows and glass panes against ramming vehicles. Thanks to its structure, the part below ground is as important as the one above ground.