

_mobility made safe and easy







The Automatic Solution

An Urbaco automatic solution is an access control system made up of different components:

THE BOLLARD one or more bollards

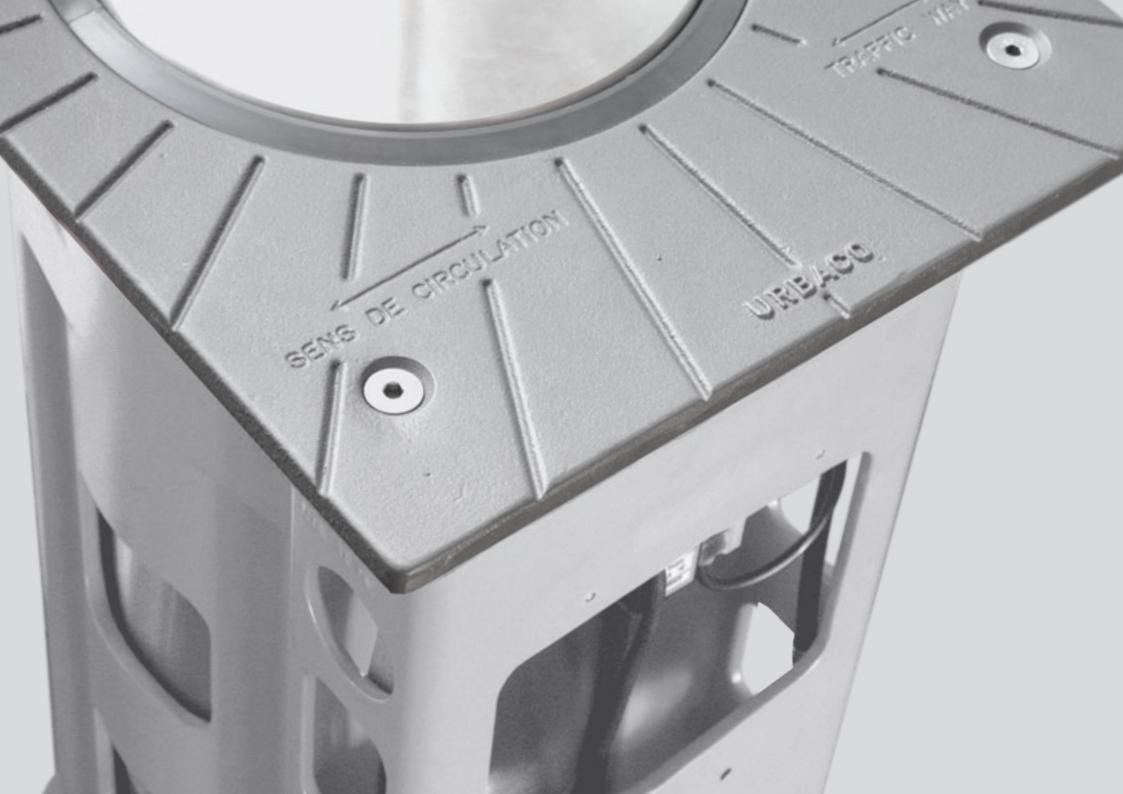
> MODE OF OPERATION one or more electromagnetic detection loops are placed in the ground on both

sides of the bollards, to detect the

presence of vehicles

THE MANAGEMENT SYSTEM comprising: - an automatic controller which manages the access control system, sending the command to open or close; - a compressor and air distribution system or a hydraulic system providing the power necessary to make the bollards rise and fall. - a controller to transmit the user's commands (radio remote control, proximity card, press button, keypad etc.)

Legendary Ropustnessurability



The bollard: **G6**, Legendary Robustness

Generation 6 range retractable bollards are the result of experience gained over many years.

The three parts of their structure, moulded in ductile cast iron, are extremely robust. Their strength lies in the use of Urbaco MONOBLOC® system.

Combining robustness and beauty, they blend perfectly into urban development projects while providing effective protection against ram-raid attack.

Urbaco Generation 6 retractable bollards are fully compliant with French standard NFP 98.310 and have been approved by the Italian Ministry of Infrastructure and Transport.

Generation 6 retractable bollards have been subjected to rolling tests in accordance with the provisions of the EN ISO 124 standard and are E600-approved. They can therefore be installed in areas that require high axis loads such as factory yards, dry docks or port areas.



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THE PATENT MONOBLOC®

- moulded from one solid block, with thickness where it is needed and no-weld construction
- rise and fall system with no wearing parts, ensuring:
 - zero maintenance costs
 - bollards stay aligned indefinitely
 - extra durability

- resistance to everything the road can throw at it: vandalism, rain, ice, sand, dust, solvents, repeated impacts, etc.

Endurance tests conducted under independent supervision record over 4,500,000 operating cycles without breakdown or need to change any structural component - equivalent to 100 operating cycles a day for 70 years.



Dimensions (mm) Illuminated top-ring* and reflective band The G6 range has 7 size The Class II reflective band in white or yellow (depending on model) combinations with 3 further enhances visibility and reduces the risk of accidental collision diameters and 3 heights with the bollard. depending on model. The red LED-illuminated top-ring makes the bollard highly visible both in daylight and at night. In addition to being a safety device, Ø 120 X h 500 the illuminated top-ring is also decorative, giving the bollard a Material and Finish Ø 120 X h 750 particularly elegant style. GS cast iron head, cover and box Ø 200 X h 500 The bollard gets a rich in zinc primer as standard in order Ø 200 X h 750 * Available as an optional depending on models and sizes to reinforce its rust-inhibiting performance and improve the polyester finishing paint adherence. Ø 250 X h 500 Ø 250 X h 600 The stainless steel version has a cast iron core clad in Ø 250 X h 750 316L stainless steel. RAL7016 Other RAL Stainless steel standard cladding: in option the Vendôme Design Available in 5 models, all of which blend perfectly into every environment. Cylinder Chateauneuf **Power Options** Pneumatic On demand Electro-mechanical

The bollard: Luxor, Acces Control Simplified



Luxor is the ideal solution to the needs of private users and government bodies: business centres, supermarket chains, car dealerships, historic urban centres; places where elegance and the public's safety and well-being have to go hand in hand.

When a pneumatic Luxor bollard starts moving, this is signalled in two ways using light and sound, to protect pedestrians and 2-wheel riders from any possible accidental collision. The audible signal ensures the safety of pedestrians in the vicinity of the moving bollard.

The cast iron bollard head cap has been designed to be more aesthetically attractive when the bollard is in its lowered position, blending perfectly with urban road surfacing.

Whenever the need to control traffic also touches on environmental protection by aiming to reduce exhaust emissions, the Luxor is your ally!

Urbaco LUXOR retractable bollards are fully compliant with French standard NFP 98.310 and have been approved by the Italian Ministry of Infrastructure and Transport. Luxor retractable bollards have been subjected to rolling tests in accordance with the provisions of the EN ISO 124 standard and are D400-approved. They can therefore be installed on the roadway.



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Illuminated top-ring and audible warning signal

This device used to provide a warning of bollard movement makes the bollard perfectly visible in all weather conditions. It is an essential fitting when the bollard is installed in very busy public spaces or in areas of heavy traffic where the least distraction could lead to an accidental collision with a moving bollard.

The audible warning signal renders the Luxor even more complete and exclusive since it adds safety against the possibility that it might not be noticed by pedestrians. In addition to being a safety device, the illuminated top-ring is also decorative, giving the bollard a particularly elegant style.

Surface Coating and Finish

The paint has a clear-coat finish and this process ensures exceptionally enduring colour even in extreme conditions.







RAL3002 standard

RAL7016 standard

Other RAL in option

Construction

The bollard is made from 6 mm steel.

The head and ground plate are in GS nodular cast iron.

Dimensions (mm)

The LUXOR range has 7 size combinations with 3 diameters and 3 heights.

> Ø 200 X h 600 Ø 270 X h 600 Ø 320 X h 600 Ø 200 X h 800 Ø 270 X h 800 Ø 320 X h 800 Ø 320 X h 950

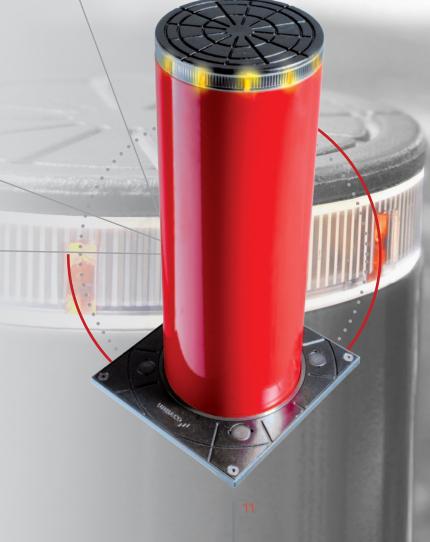
Power Options



Pneumatic



Electro-mechanical



The bollard Option Range



Customization

Choice of non-standard RAL paint colours
Illuminated top-ring, white
Matt finish illuminated top-piece for diffused light output
Yellow or red reflective band



Installation

Lost casing or with finishing plate (depending on size) Connection kit, 25 or 50 linear metre



Heating Kit

The heating kit guarantees correct operation of the bollard even in cold conditions.



Movement Warning Buzzer

A buzzer with a 60 to 80 dB output at 10 cm sounds when the bollard is in movement



Integral movement switch (depending on size)

A device mounted on the bollard enabling it to retract, using a key-operated switch mounted in series with the automatic control emergency stop. This option requires one of the special key options to be chosen (triangle 11, triangle 14 or half-moon).



Mode of Operation

Positive safety: in the event of a power outage, the bollard descends by gravity

Negative safety: in the event of a power outage, the bollard remains in the position it was in before the outage



Pedestrian safety

If a pedestrian steps on the bollard while it is coming up, the system prevents the upward movement. The system is inhibited when the bollard is in the high position.



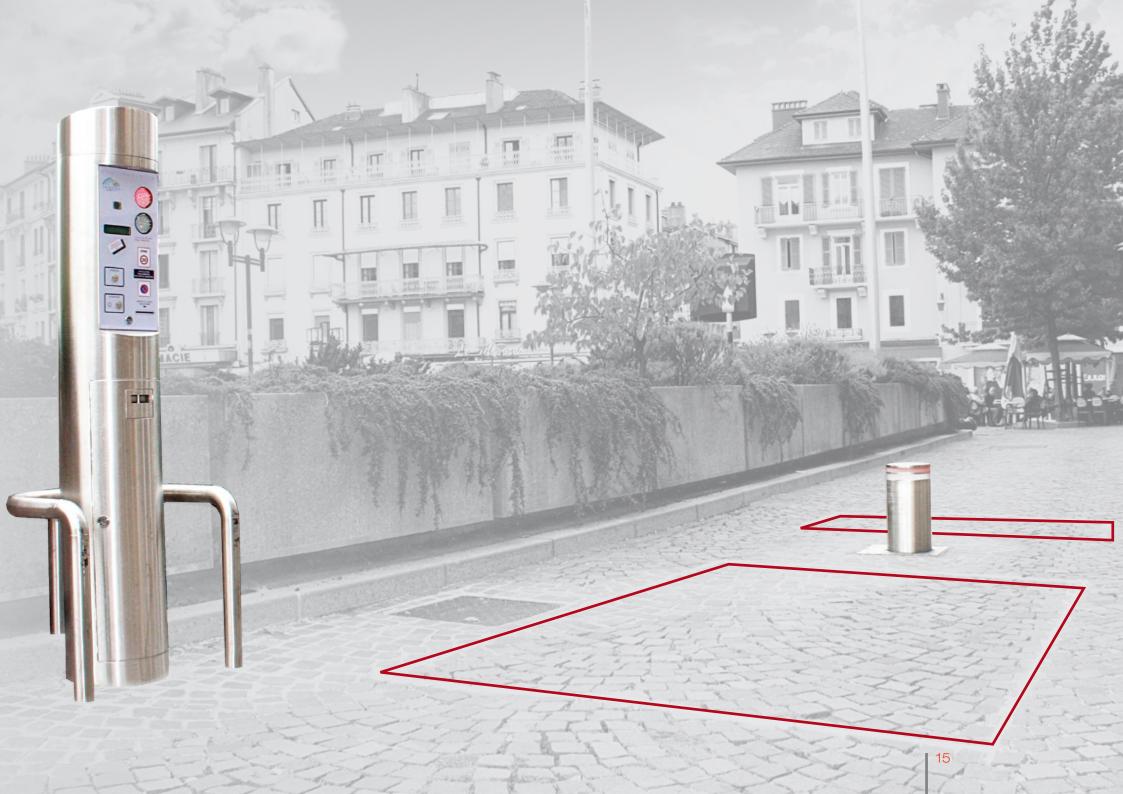
Vandalism Resistance

Set of 4 anti-vandal screws on the top-piece Anti-vandal key



Mode of Operation





Mode of Operation: Access Logic Control

Access configuration, going beyond aesthetic considerations and the bollard performance itself, depends on the security and management levels desired.

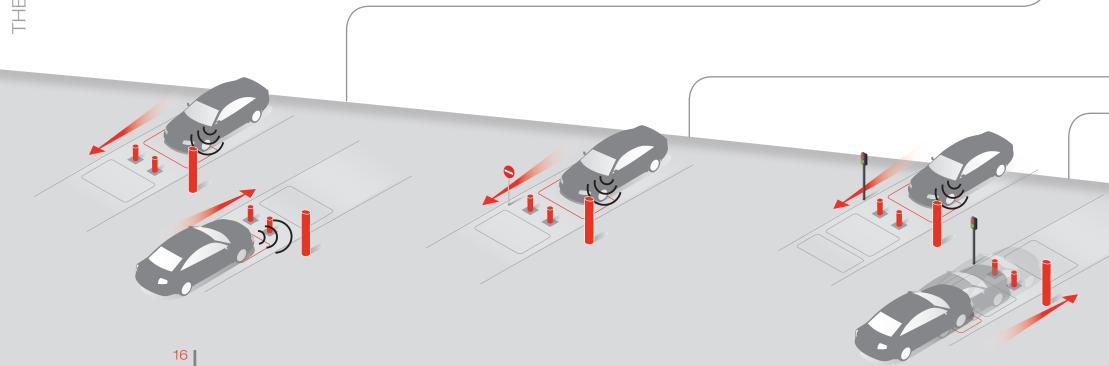
These security and management levels find their form in the installation of magnetic loops, (safety loops and security/presence loops) which create an operating mode.

This, then, is referred to as operating logic.

Safety loop: this detects the presence of vehicles and stops the bollard from rising when there is a vehicle above it. The loop is buried under the road surface and it is capable of carrying out the two functions of security/presence and safety at the same time.

The security/presence loop: this detects the presence of a vehicle and makes it possible to accept a command sent by a remote control user. The bollard falls, thus enabling the vehicle to pass over it.

The number of loops used depends on the type of operation (operating logic systems) desired to be installed.



Controlled Entry and Controlled Exit - Two-way traffic

Entry

The vehicle passes over the presence loop.

The user puts the bollard(s) in the low position via a command (radio pulse, contact-free badge, button, keypad code...).

The vehicle passes over the bollard(s) and the presence/safety loop.

The bollard(s) come(s) back up automatically when the vehicle is no longer on the presence/safety loop.

Exit

The vehicle passes over the presence/safety loop.

The user puts the bollard(s) in the low position via a command (radio pulse, contact-free badge, button, keypad code...).

The vehicle passes over the bollard(s) and the presence loop.

The bollard(s) come(s) back up automatically when the vehicle is no longer on the presence loop.

Controlled Entry or Controlled Exit - One-way traffic

The vehicle passes over the presence loop.

The user puts the bollard(s) in the low position via a command (radio pulse, contact-free badge, button, keypad code...).

The vehicle passes over the bollard(s) and the presence/safety loop.

The bollard(s) come(s) back up automatically when the vehicle is no longer on the internal or external loop.

Controlled Entry and Automatic Exit - Two-way traffic

Entry

The vehicle passes over the presence loop.

The user puts the bollard(s) in the low position via a command (radio pulse, contact-free badge, button, keypad code...).

The vehicle passes over the bollard(s) and the presence/safety loop.

The bollard(s) come(s) back up automatically when the vehicle is no longer on the presence/safety loop.

Exit

The vehicle passes over the automatic exit loop and the presence/safety loop.

As soon as the automatic exit loop and the presence/safety loop detect the user, the automatic device puts the bollard(s) in the low position.

The vehicle passes over the bollard(s) and the presence loop.

The bollard(s) come(s) back up automatically when the vehicle is no longer on the presence loop.

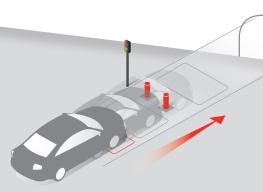
Automatic Exit - One-way traffic

The vehicle passes over the automatic exit loop and the presence/safety loop.

As soon as the automatic exit loop and the presence/safety loop detect the user, the automatic device puts the bollard(s) in the low position.

The vehicle passes over the bollard(s) and the presence loop.

The bollard(s) come(s) back up automatically when the vehicle is no longer on the presence loop.



The Management System





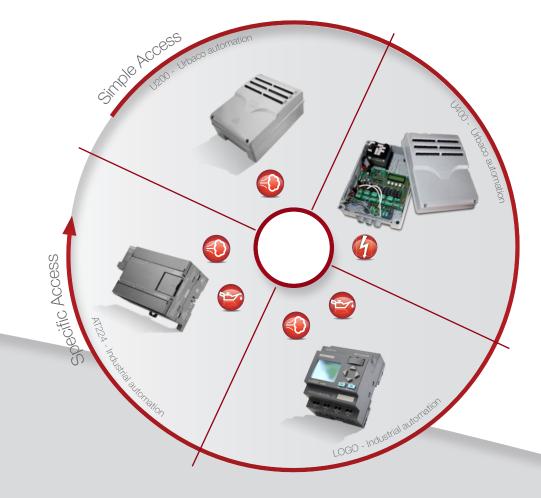
The Management System: from simple management to smart control

Each application has its own bespoke automation system, power operation system and control equipment

Urbaco can offer automation systems to meet every possible operational requirement.

Customised to match the intensity of use and operating logic desired, Urbaco develops its own automation systems or integrates industry standard systems.

Depending on the degree of complexity of access management, Urbaco recommends a choice of power operation and control equipment from the broad range of possibilities at its disposal.





PNEUMATIC



HYDRAULIC



ELECTRO-MECHANICAL



The Management System: from a simple control box to a user interface

Controllers - Positioned near the controlled access, they can contain control equipment (depending on size), but equally they can house users' communications devices. Their installation near to the access gives them a signalling role with the presence of position lamps.



CITY 5

TECHNICAL SPECIFICATION

- 7 mm cast aluminium construction
- Polyester powder coat finish
- Height: 1400 mm City 5 Drive in 1600 mm - City 5 Piéton
- Dimensions: 470 mm x 330 mm
- Cast aluminium plinth
- Central section with access door with security hinges and lock
- Upper section with 2 front faces screen printed polycarbonate
- Cap
- Optional emergency stop button located on the side under an access hatch)
- 2 LED lights (colours as per legislation)
- Acoustic and thermal insulation



CITY 3

TECHNICAL SPECIFICATION

- 6 mm steel construction
- Polyester powder coat finish or stainless steel
- Height: 1600 mm
- Diameter: 325 mm
- One lockable access door
- One lockable access hatch for the emergency stop button
- Front face in screen printed polycarbonate
- LED lights (colours as per legislation)
- Galvanised steel base plate for embedding in concrete
- Acoustic and thermal insulation

Available in stainless steel



CITY 6

TECHNICAL SPECIFICATION

- 6 mm steel construction
- Polyester powder coat finish or stainless steel
- Height: 1800 mm
- Diameter: 325 mm
- One lockable access door
- One lockable access hatch for the emergency stop button
- Front face in screen printed polycarbonate
- LED lights (colours as per legislation)
- Galvanised steel base plate for embedding in concrete
- Acoustic and thermal insulation

Available in stainless steel



Control Units - Located in a control centre or on the roadway, the control units house the control equipment and remote control receivers



A control housing fitted in a control centre

TECHNICAL SPECIFICATION

- Gloss finish painted steel housing
- Two-point lock
- Acoustic and thermal insulation
- Ventilated at top and bottom
- Wall fixed



A cabinet located on the roadway

TECHNICAL SPECIFICATION

- 1.5 mm aluminium construction cabinet
- Three-point key-operated lock
- Acoustic and thermal insulation
- Optional ventilation

Ancillary Control Boxes - these are used to house control devices as an extra to control housings or, most often, control cabinets. They can also be linked to a controller to supplement or complement user controls.



CITY 0

TECHNICAL SPECIFICATION

- 3 mm steel tube
- Polyester powder coat finish
- Height: 1300 mm
- Diameter: 140 x 80 mm
- LED lights (colours as per legislation)



CITY 1

TECHNICAL SPECIFICATION

- 6 mm steel tube
- Polyester powder coat finish
- Height: 1400 mm
- Diameter: 200 mm
- One lockable access door
- One lockable access hatch for the emergency stop button
- Front face in screen printed polycarbonate
- LED lights (colours as per legislation)

Available in Double Face version

- Galvanised steel base plate for embedding in concrete



TRAFFIC LIGHT POST

POST (ONLY) TECHNICAL SPECIFICATION

- 3 mm steel tube
- Height: 1400mm
- Diameter: 76 mm
- Coloris standard RAL 7016 gris anthracite

LIGHT (ONLY) TECHNICAL SPECIFICATION

- IP55 Black plastic housing
- Height: 440 mm
- Light Diameter: 85 mm
- LED lights (colours as per legislation)

Available in twin light version



Management System Options



Customization

Choice of non-standard RAL paint colour (controllers only) Choice of colour for position lights and their options Special face printing



Additional module

For City 6 only



The heating kit increases the City's operating temperature range to -20° to +40°C (standard to 0° to +40°)



Number of access points managed Choice of number of access points managed by control centre



Operating Logic

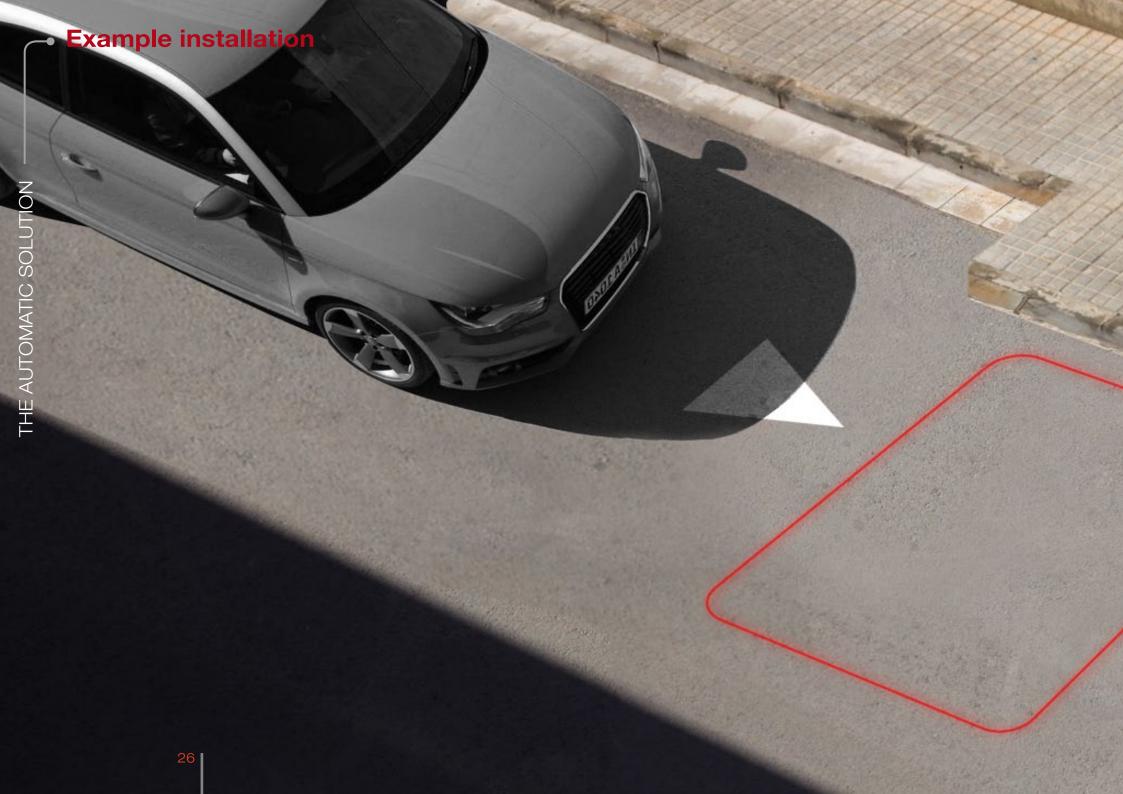
Capacity to set the access point operating logic (1 operating logic per access point)

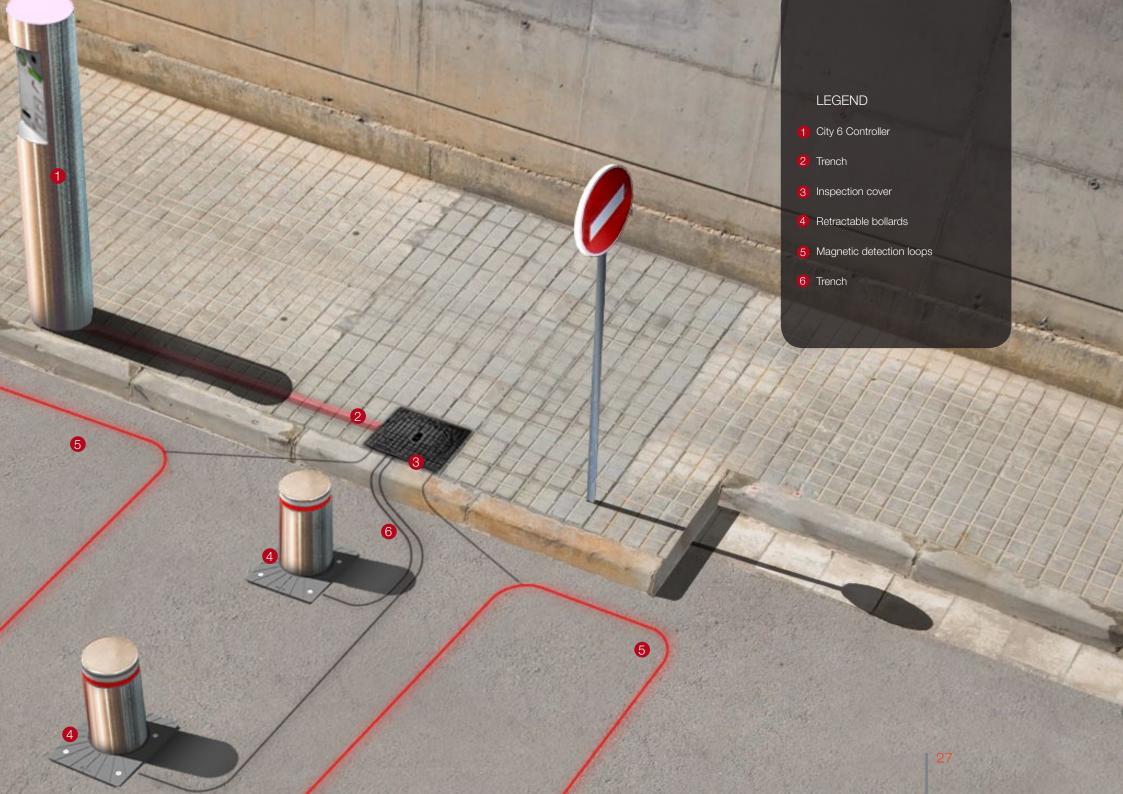


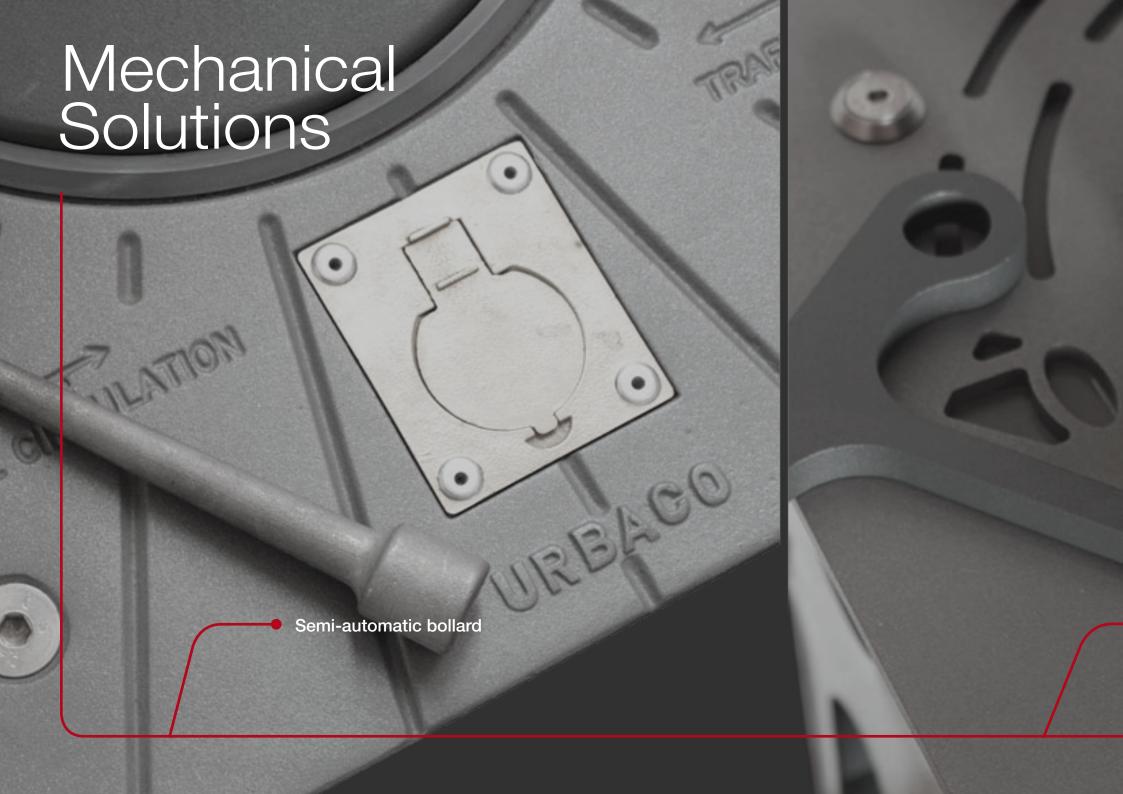
Safety

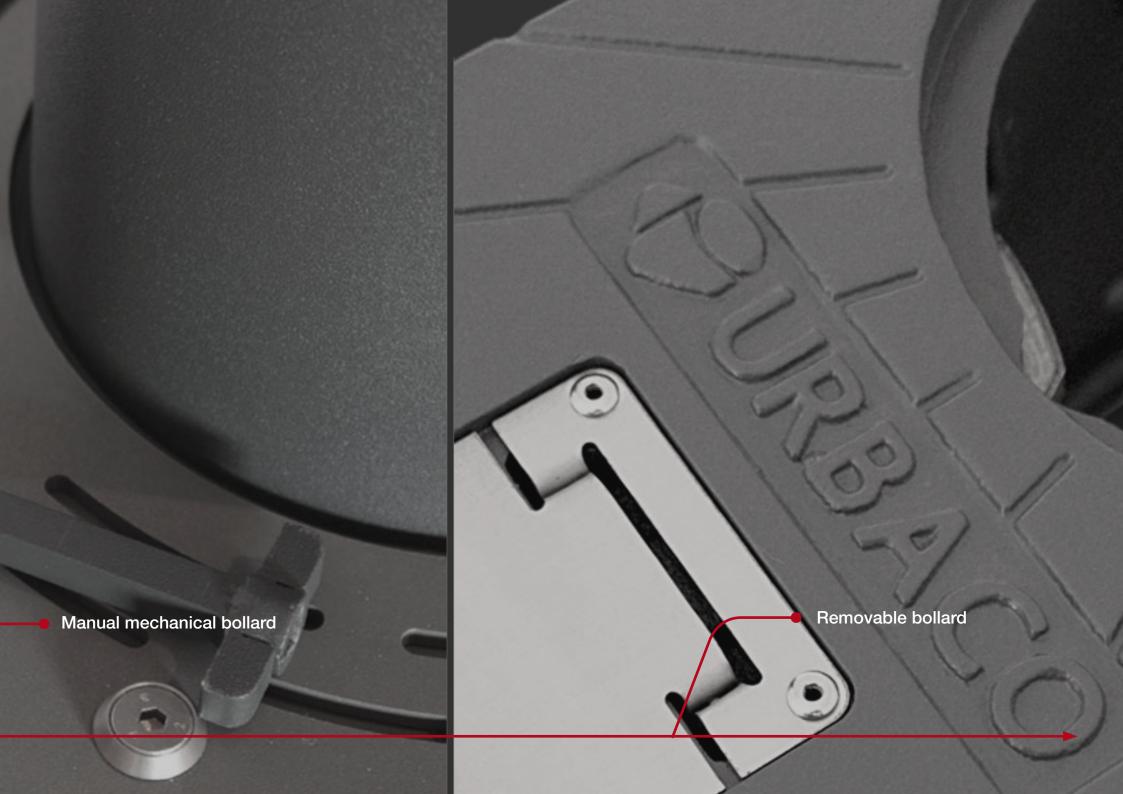
Loop detectors positioned to ensure access point safety Emergency stop operates when emergency services cut through cuttable linkage provided for this purpose











Semi-automatic bollard

The semi-automatic retractable bollard is a system developed for very occasional access. For this reason it is recommended for situations with low access opening frequency.

The bollard is moved using a key which releases the mechanism.

One push on the head of the bollard is all it takes to make it descend to flush with the ground, where it automatically locks in position.

Then, with a turn of the key, the bollard rises automatically and locks in the up position.

The key opening is protected by a stainless steel cover plate stopping the ingress of dust or gravel.

The semi-automatic bollard is also the ideal access control solution in areas without an electricity supply.

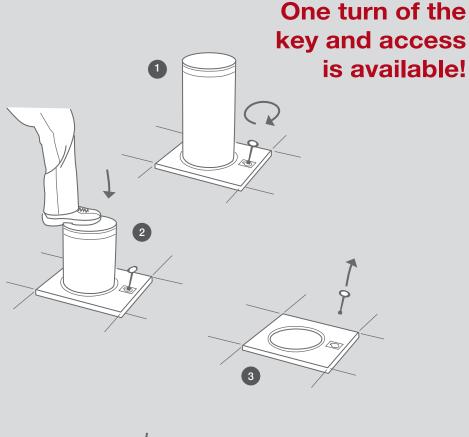


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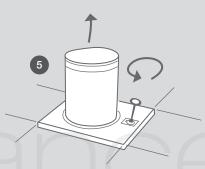


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The bollard gets a rich in zinc primer as standard in order to reinforce its rust-inhibiting performance and improve the polyester finishing paint adherence.

The stainless steel version has a cast iron core clad in 316L stainless steel.



RAL7016 standard



Other RAL in option



Stainless steel cladding: the Vendome

Dimensions (mm)

Ø 120 X h 500 Ø 120 X h 750

Ø 200 X h 500 Ø 200 X h 750

Ø 250 X h 500 Ø 250 X h 750

Reflective Band

The Class II reflective band in white or yellow (depending on model and legislation) further enhances visibility and reduces the risk of accidental collision with the bollard.

Key Pattern

The unlocking key pattern matches that of the lock rod.









ESA*



*on demand



Available in 5 models, all of which blend perfectly into every environment









Cylinde

/andâma

hateauneuf

Athén:

On demand

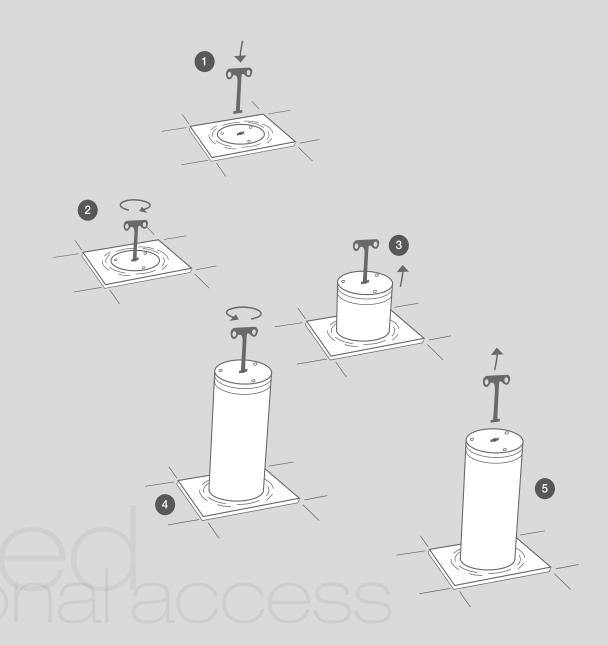
Acropole

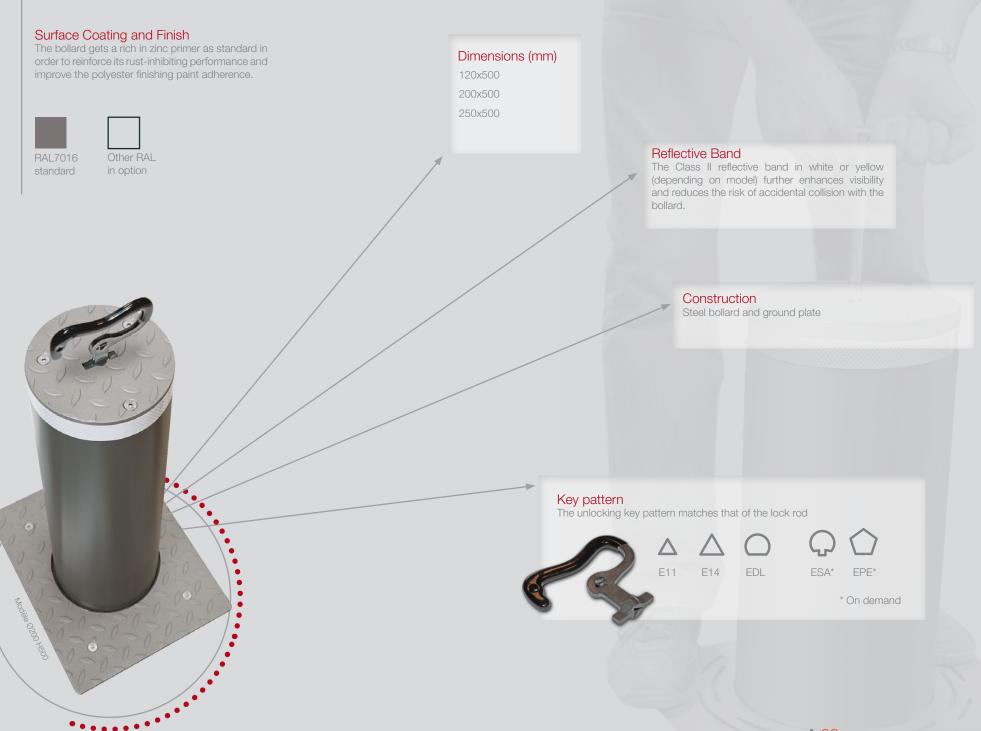


Manual mechanical bollard

The manual mechanical bollard without power operation or gas lift is the recommended solution to secure occasionally used accesses.

Locking, raising and lowering are done using a specific notched T11 key which is inserted into the top of the bollard. This system is compatible with the fire-fighter type key).





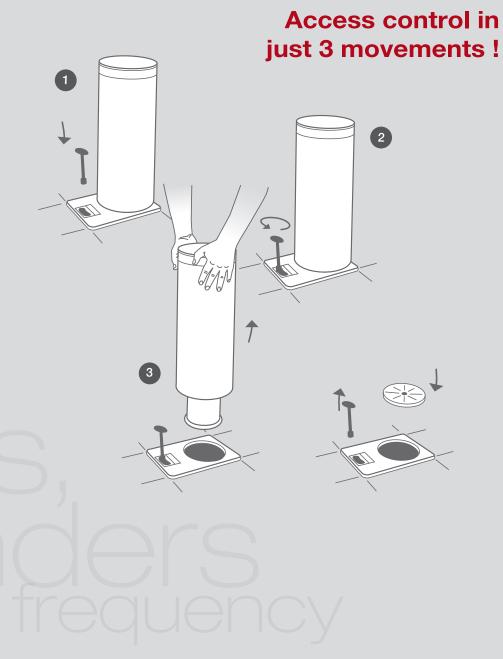
Removable bollard

The removable bollard is the starter solution for access control. It is the cost-conscious way to effectively control access.

The FIXATOR® is concreted into the ground and the bollard or post is fitted into it by manually rotating it and securing it with a key.



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References

Pedestrianized Zone Development

Toulon, Lyon, Nice, Aix en Provence, Poitiers, Rennes, Angers - France | Shanghaï, Beijing - China | Coïmbra, Braga - Portugal | Tenerife, Canary | Stockholm - Sweden | Sydney, Australia

Protection of Public Buildings

Imperial Palace, Tokyo, Japan | Parliament, Canberra, Australia | City Hall, Sydney, Australia | Human Rights Palace, Strasbourg, France | Congress Center, Lyon and Paris, France | Forbidden City, Beijing, China | Space Center of Rabat, Morocco | UFJF, Federal University of Juiz de Fora, Brazil | Stadium of France, Sain- Denis, France

Access Control for Major Shopping Chains

Ikea | Lidl | Auchan | Carrefour | Intermarché | Leclerc

Access Control for Major Hotel Chains

Hyatt, Morocco | The Meridian, India | Marriott, Egypt | Numerous hotels of ACCOR Group across the world

Protection of Industrial Sites and Premises

Eurodif (Nuclear plant COGEMA), France | Rolex Headquarters and plant, Switzerland | BMW, Peugeot, Renault, VW-Audi, Michelin | SHELL, Morocco | Porsche, Germany | French Train stations of Valence, Avignon, Aix en Provence...| Toyota, Japan | PEMEX, Petróleos Mexicanos, Mexico | Big french companies as EDF-GDF, TF1, ...

Protection of Banks

Richmond Federal Reserve, USA | Rothschild Bank, Switzerland | Pictet & Cie Bank, Switzerland | Banque de France | Numerous french banks agencies as Société Générale, Crédit Agricole, BNP, Banque Populaire, Caisse d'Epargne...accross the Europe





PMR Range

Because safety is important for all of us, and particularly for more vulnerable persons, **Urbaco** offers its PMR range, comprising illuminated bollards and posts with audible warnings, contrasting colours and specific sizes to fully comply with **the French decree of 18 september 2012** modifying the decree of 15 january 2007 applying Decree 2006-1658 of 21 December 2006 regarding technical specifications for access on roadways and spaces, enabling Persons with Reduced **Mobility** to have the best possible day-to-day travel.

Convinced that enterprise has a major role to play at the heart of civil society and that its role places it at the very centre of urban development and social progress, **Urbaco** is committed to people with disabilities to ensure they have access to urban areas.











