

VEHICLE ACCESS CONTROL TERTIARY, INDUSTRIAL & URBAN

**VEHICLE
ACCESS CONTROL**

**SAFETY
RETRACTABLE BOLLARDS
CRASH TESTS**

**SUPERVISION
CENTRALIZED
TECHNICAL CONTROL**



CAME  URBACO

[CAME.COM/URBACO](https://came.com/urbaco)



CAME URBACO **URBAN SECURITY**

SAFE DEVICES

RETRACTABLE BOLLARDS
ROAD BLOCKERS

SMART DEVICES

CONTROLLERS
CENTRALIZED TECHNICAL CONTROL

PERIMETER SECURITY

FIXED BOLLARDS
REMOVABLE BOLLARDS
POSTS

PROJECT SUPPORT

EXAMPLE OF A CONFIGURATION
REFERENCE
ORGANIZATION

WE SPEAK ABOUT QUALITY OF LIFE IN ALL THE LANGUAGES OF THE WORLD.

For more than 60 years, CAME has been taking care of what is important by using technology to lead to a new quality of life. A focus on innovation and constant attention to people so that they can live in the best possible way are the basis of each project. CAME sets itself apart through its expertise and know-how as an experienced company and its ability to combine functionality and design while constantly improving performance.

All this requires the collaboration of professionals able to transform our innovations into solutions, to create customized automation systems combined with the best connectivity and mobility technologies. Together, CAME and its partners are working to satisfy customers who are increasingly demanding and heterogeneous in terms of their culture and needs, to transform living spaces into increasingly intelligent and safe places.



CAME

WE HAVE A MODERN SOLUTION TO ALL YOUR NEEDS

CAME is a leading brand in the design of integrated solutions for automation, video intercoms, access control and public and private car parking lots. Over the years, the CAME Group has added highly specialized companies that have broadened its areas of intervention, allowing it to offer advanced solutions for residential, commercial and urban environments: everything from home automation to temperature control, from rising barriers to high-security bollards, to automatic doors and sectional doors for garages and industrial applications. CAME has a unique and distinctive corporate vision that makes it an innovative and reliable technology partner.

CAME  BPT

CAME  GO

CAME  PARKARE

CAME  BTECH

CAME  URBACO

CAME  ÖZAK

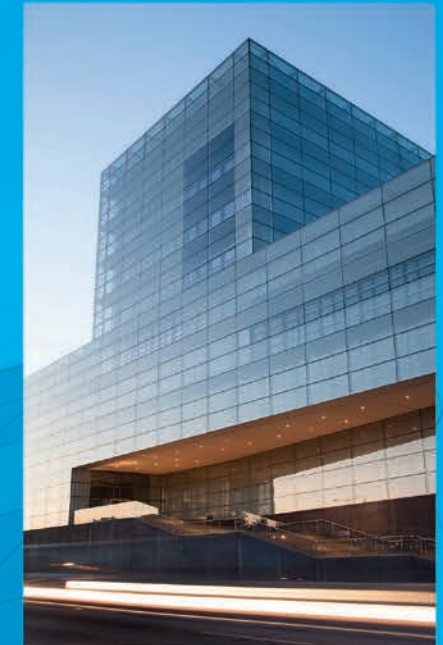
RESIDENTIAL SOLUTIONS



URBAN SOLUTIONS



BUSINESS SOLUTIONS



RESIDENTIAL SOLUTIONS

We went beyond the simple idea of home automation to develop a more comprehensive approach where each device is always integrated and connected to people's lives. Nowadays, automation is at the heart of everything: from managing entries, doors and windows to controlling blinds and shutters, and to video intercom and anti-intrusion systems.

BUSINESS SOLUTIONS

In each community setting, our offer includes the most sophisticated systems for access control and the most advanced solutions for alarm systems, intercom/video systems and parking barriers. Small and large companies, commercial operations, large buildings: CAME's home automation systems provide control and security for small and large communities.

URBAN SOLUTIONS

Our offer has been designed to meet the various urban planning and architectural automation requirements. CAME's solutions have been designed to manage the security and control of large projects and to contribute to the planning of public spaces, making them "Safe and Smart" as required by the current dynamics of international metropolitan areas.

CAME.COM

THE CAME GROUP OFFER



AUTOMATION SYSTEMS

- Gate automation systems
- Garage door automation systems
- Industrial locking automation systems



AUTOMATIC DOORS

- Sliding and swinging doors



AUTOMATIC BARRIERS

- Automatic barriers for parking lots and toll stations
- Automatic barriers for residential or industrial use



VIDEO INTERCOM SYSTEMS

- Video intercom systems
- Intercom systems



PARKING SYSTEMS

- Off-street solutions
- On-street solutions



HOME CONTROL SOLUTIONS

- Temperature control devices
- Anti-intrusion systems
- Home automation systems



BOLLARDS AND ROAD BLOCKERS (RETRACTABLE BOLLARDS)

- Traffic control bollards
- High security bollards and road blockers



SOLUTIONS FOR BLINDS AND SHUTTERS

- Automatic blinds and shutters
- Rolling shutter automation systems



TURNSTILES AND SPEED GATES

- Turnstiles
- Speed gates
- Access control software



SECTIONAL DOORS

- Garage doors
- Industrial doors



OUR NETWORK IN THE WORLD.

The CAME Group is represented throughout the world. CAME coordinates 7 production plants and 6 R&D centers from its headquarters in Treviso - the Group's hub. It controls the market through its subsidiaries distributed in 21 countries and, thanks to its commercial partners and distributors, operates in at least 118 countries worldwide.

The complexity of inhabited spaces and mobility flows require increased protection and security, an evolved reaction capacity and know-how that embraces an integrated and global vision of the world.

CAME offers itself as a technological partner able to support projects based on the integration of systems to improve the quality of private and community living spaces, with products designed for home control, urban management and work spaces of all types and all over the world.

The Group has common goals that go far beyond individual specializations: thanks to the synergy between all divisions and brands, CAME shares a modus operandi that allows us to thrive in diversity.

AMERICAN BRANCHES

Brazil
Chili
Mexico
Peru
The United States

1700

EMPLOYEES AROUND THE WORLD

CAME HQ
Treviso, Italy

EUROPEAN BRANCHES

Italy	Poland
Belgium	Portugal
Croatia	Russia
France	Spain
Germany	The United Kingdom
Ireland	
Netherlands	Turkey

6

R&D CENTERS

21

COUNTRIES WITH DIRECT
BRANCHES

118

COUNTRIES WITH PARTNERS
AND DISTRIBUTORS

ASIAN BRANCHES

India
United Arab
Emirates

7

PRODUCTION PLANTS

Dosson di Casier - Italy
Sesto al Reghena - Italy
Spilimbergo - Italy
Hemel Hempstead - UK
Entraigues - France
Barcelona - Spain
Kocaeli - Turkey

!

480

DISTRIBUTORS AND PARTNERS
IN THE WORLD

ACCESS CONTROL AND SECURITY SOLUTIONS TERTIARY AND URBAN

Traffic and pedestrian traffic safety are central to the challenges of cities. Urban life is influenced by these installations that control the flow of vehicles to protect and reassure citizens. CAME URBACO solutions fit perfectly into urban and tertiary areas thanks to their adaptability and thus provide an essential element of security. They provide perimeter security and control of urban and industrial entrances.

CAME URBACO, the inventor of the retractable bollard offers its expertise in integrated access control systems, perimeter security, urban planning and automated traffic flow control using retractable, removable and fixed bollards. The leading brand designs, manufactures, maintains and sells technological solutions to share and delimit pedestrian areas but also to protect sensitive sites where the need for security of buildings and people is crucial.



PROJECT-BASED SUPPORT

CAME URBACO has a team of experts who study the challenges of each project to propose and develop customized solutions that are fully in line with the specific requirements identified.



CAME URBACO

PIONEERING, INNOVATIVE ACTIONS

-  The inventor of the retractable bollard
-  1st company in the world to design a centralized technical control system for pedestrian areas
-  1st French manufacturer of high security bollards certified according to the latest international standards
-  1st manufacturer in the world to have performed 2 crash tests on the same bollard
-  A multitude of custom-designed projects for installations around the world

ORGANIZE AND REGULATE TRAFFIC

- Secure sensitive areas to meet the challenges of protecting people and buildings
- Direct vehicle traffic flow to protect pedestrians
- Define public/private spaces between pedestrians and vehicles

CONTROL ENTRANCES AND EXITS : PEDESTRIANIZATION

- Regulate traffic and control the transit of vehicles
- Limit the risk of traffic accidents
- Reduce the level of congestion and pollution

CAME URBACO
VEHICLE TRAFFIC
FLOW CONTROL SOLUTIONS

As a provider of vehicle access control at all levels, CAME URBACO develops a global management system. Compatible with the various CAME solutions, it offers its technicality and adaptability to installations in industrial and urban environments.



ACCESS MANAGEMENT SOLUTIONS:

- Traffic flow control
- Pedestrianization of the city center
- Safety barriers



MANAGEMENT SYSTEM:

- Access centralized control
- Open and scalable solutions, compatible with third-party hypervisors



CERTIFIED SECURITY OF INDUSTRIAL AND URBAN SPACES:

- Retractable, removable, fixed crash-tested bollards
- resistant to the impact of a 2.5 T pick-up truck at 48 km/h
 - resistant to the impact of a 7.5 T truck traveling at 48 to 80 km/h



MANAGEMENT OF ROAD BLOCKERS:

- Crash-tested road blockers
- resistant to the impact of a 7.5 T truck traveling at 80 km/h

THE RANGE



SAFE

RETRACTABLE BOLLARDS

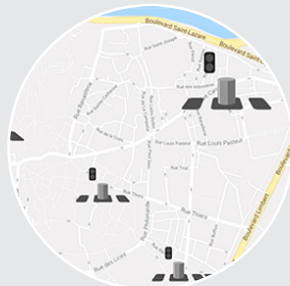
The retractable bollards retract automatically into the ground thanks to a remote control triggering the authorization of a vehicle to pass. They make it possible to regulate the flow of vehicles and to delimit and make pedestrian spaces safe. They can also be retracted [semi-automatically or manually](#).



SMART

MANAGEMENT TOTEMS

Urban mobility, the totem is the interface with the user. It contains the control devices and the bollard control device: the control board which will communicate with the Sygma 4 supervisor or with an existing hypervisor, in the case of centralized technical control.



SMART

SYGMA 4

SAAS (Software As A Service) Centralized Technical Control Software Package, it allows advanced user management, information feedback and a real-time overview of accesses. It centralizes the management of bollards, road blockers or even barriers.



PERIMETER SECURITY

FIXED & REMOVABLE BOLLARDS

Fixed bollards mark the pedestrian lanes. Installed on the periphery of the retractable bollards, they restrict access and seal off the area around them. A [removable](#) allows not to block an access in a permanent way by releasing the lane punctually.

DEVICES OF A TYPICAL ACCESS

Combining Safe & Smart solutions, CAME URBACO creates complete access control devices for retractable bollards thus testifying to the extent of the brand's know-how: Retractable bollards, Control totems, Supervision, Fixed and removable bollards.

The complementary designs of the different ranges blend in perfectly with each other and with the urban environment in a balanced way.



SAFE & SMART SOLUTIONS



Cannes, France, ONE 40^{EV}, retractable and fixed bollards, Totem City 6^{EV}

GENERAL INDEX AND LEGEND OF THE SYMBOLS



NEW PRODUCTS
2021



CRASH-TESTED
models according
to the latest
international
standards



RESISTANCE to
vehicle impact



Crash-test certified
according to PAS68 and
IWA14-1 standards on a
7.5/7.2 ton vehicle traveling
at 80 km/h
*Each pictogram indicates the
vehicle and the crash test speed,
specific to the model.*



REMOTE
HYDRAULIC drive



ON-BOARD
HYDRAULIC drive



PNEUMATIC drive



Equivalent to the certified
crash test on a range model
according to PAS68 and
IWA14-1 standards on a
7.5/7.2 ton vehicle traveling
at 80 km/h
*Each pictogram indicates the
vehicle and the crash test speed,
specific to the model.*



Drive function
optional
EFO
*Emergency Fast
Operation*



Drive function
optional
BATTERY
*Safety lift in case of
power failure*



Drive function
optional
DRILL
*Semi-automatic drill-
ing action*

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CERTIFICATIONS & INTERPRETATIONS

RESISTANCE OF CAME URBACO BOLLARDS CERTIFICATES

Type	Model	Test method	Results	Standard	kJ
RETRACTABLE 	G6N	Equivalent	STOPS A VEHICLE OF 1,5 T traveling at 48 km/h	IWA 14-1:2013* V/1500[M1]/48/90	133*
	G6N	Equivalent	2,5 T traveling at 48 km/h	IWA 14-1:2013* V/2500[M1]/48/90	238*
	G30	Crash test achieved in physics	STOPS A VEHICLE OF 2,5 T traveling at 48 km/h	IWA 14-1:2013 V/2500[N1G]/48/90:0,6 PAS68:2013 V/2500[N1G]/48/90:0,4/0,0	238
	ONE 30EVO	Crash test achieved in physics	STOPS A VEHICLE OF 7,5 T traveling at 48 km/h	IWA 14-1:2013 V/7200[- N2A]/48/90:0,0 PAS68:2013 V/7500[N2]/48/90:0,0/0,0	681.2
	ONE 40EVO	Crash test achieved in physics	STOPS A VEHICLE OF 7,5 T traveling at 64 km/h	IWA 14-1:2013 V/7200[- N2A]/64/90:2,6 PAS68:2013 V/7500[N2]/64/90:2,4/15,5	1290
	ONE 50EVO	Crash test achieved in physics	STOP OF 2 VEHICLES OF 7.5 T consecutively trav- eling at 80 km/h	CRASH-No.1: IWA 14-1:2013 V/7200[N3C]/80/90:4,2 PAS68:2013 V/7500[N3]/80/90:3,9/22,7 CRASH-No.2: IWA14-1:2013 V/7200[- N2A]/80/90:2,9	1776 1765
FIXED 	G30	Dynamic simulation performed by an approved laboratory	STOPS A VEHICLE OF 2,5 T traveling at 48 km/h	PAS68:2013* V/2500(N1G)/48/90	238*
	ONE 30EVO	Dynamic simulation performed by an approved laboratory	STOPS A VEHICLE OF 7,5 T traveling at 48 km/h	IWA 14-1:2013* V/7200[N2A]/48/90 PAS68:2013* V/7500[N2]/48/90	681.2*
	ONE 40EVO	Dynamic simulation performed by an approved laboratory	STOPS A VEHICLE OF 7,5 T traveling at 64 km/h	IWA 14-1:2013* V/7200[N2A]/64/90 PAS68:2013* V/7500[N2]/64/90	1138* IWA 1185* PAS
	ONE 50EVO	Crash test achieved in physics	STOPS A VEHICLE OF 7,5 T traveling at 80 km/h	IWA 14-1:2013 V/7200[N3C]/80/90:5,9 PAS68:2013 V/7500[N3]/80/90:5,6/27,2	1763.2
REMOVABLE 	ONE 30EVO	Equivalent to crash tests carried out on the retractable bollard	STOPS A VEHICLE OF 7,5 T traveling at 48 km/h	IWA 14-1:2013* V/7200[N2A]/48/90 PAS68:2013* V/7500[N2]/48/90	681.2*
	ONE 40EVO	Equivalent to crash tests carried out on the retractable bollard	STOPS A VEHICLE OF 7,5 T traveling at 64 km/h	IWA 14-1:2013* V/7200[N2A]/64/90 PAS68:2013* V/7500[N2]/64/90	1138*
	ONE 50EVO	Equivalent to crash tests carried out on the retractable bollard	STOPS A VEHICLE OF 7,5 T traveling at 80 km/h	IWA 14-1:2013* V/7200[N3A]/80/90 PAS68:2013* V/7500[N3]/80/90	1778* IWA 1852* PAS

Aware of the security issues to which CAME URBACO solutions respond, the brand has chosen the most recent and most demanding versions of the standards at the international level to carry out the crash tests of its high security bollards.



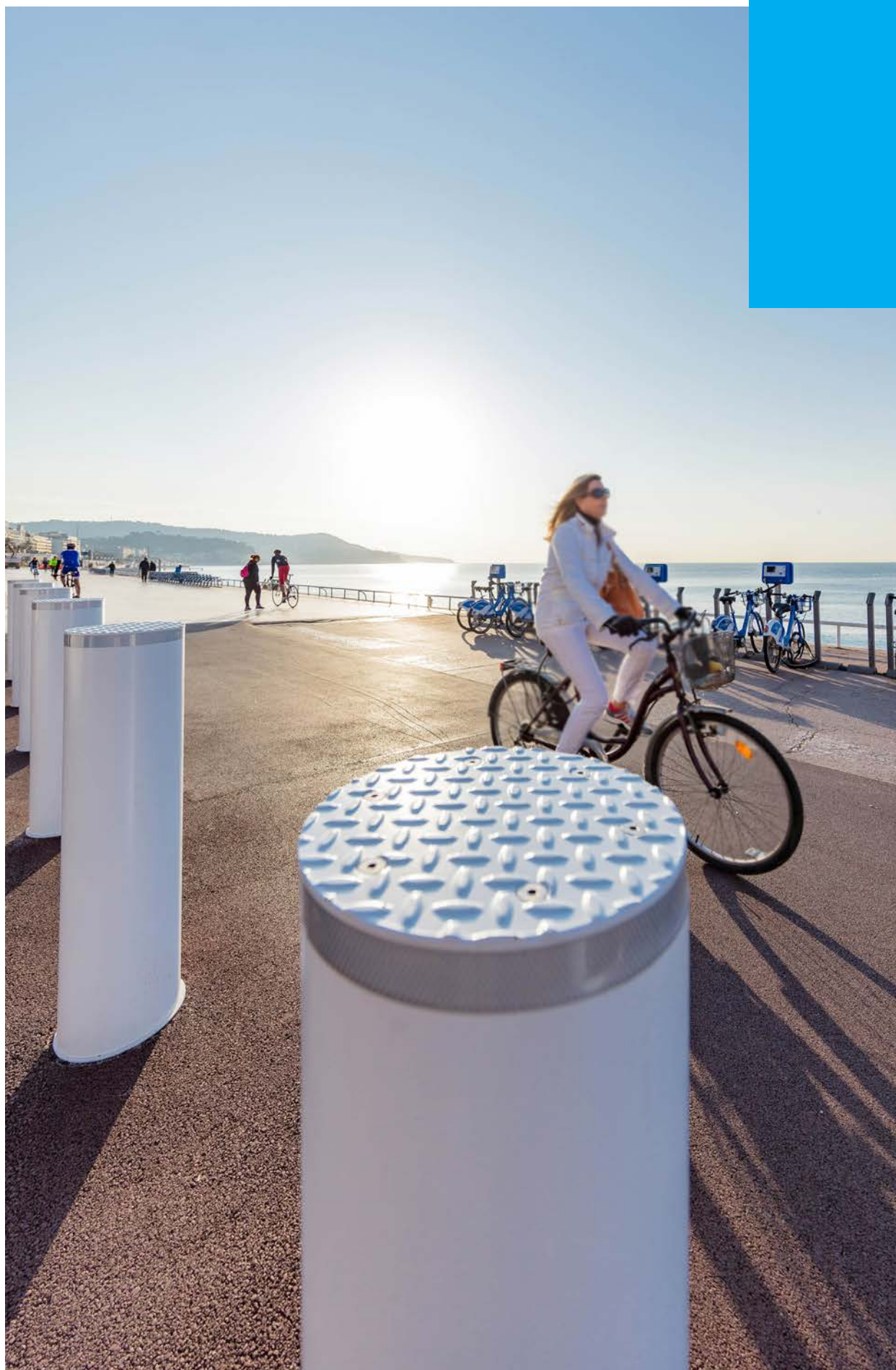
Each certified crash test can be interpreted using the following line:

BOLLARD V / 7200 [N3C] / 80 / 90 : 4,2

- BOLLARD = TYPE OF "BOLLARD" PRODUCT
- V = TYPE OF TEST "VEHICLE"
- 7200 = WEIGHT OF THE VEHICLE (KG)
- N3C = TYPE OF VEHICLE
- 80 = IMPACT SPEED (KM/H)
- 90 = IMPACT ANGLE (°)
- 4,2 = VEHICLE PENETRATION (METERS)

INTERPRETATION TIPS

- To provide you with all the information from the crash tests carried out, CAME URBACO provides a simple and transparent interpretation.
- To assess the security level of the bollards on the market, it is necessary to pay attention to the following points:
 - Post-impact penetration: must not exceed a dozen meters
 - Post-impact access safety: the ONE^{EVO} bollards always ensure safe access after impact
 - Data of the crash test methods: CAME URBACO has certified its bollards with the latest international standards
 - The certifying laboratories: the selected laboratories are accredited and have a worldwide reputation
 - The conditions of the crash test, by viewing it: the weight in the truck must not be ejected, it represents 50% of the energy for a N2A type truck
 - The number of installed bollards: During our crash tests, the impact is always made on a single bollard



SAFE DEVICES

The **CAME URBACO** retractable bollards are integrated into the core of vehicle flow management solutions. Complementary ranges make it possible to respond to all urban issues depending on the location and the level of security required.

They delimit urban, industrial or commercial areas and are associated with a smart system to ensure access control and site security.

RETRACTABLE BOLLARDS

The retractable bollards retract into the ground thanks to a remote control triggering the authorization of a vehicle to pass.

G6N RETRACTABLE BOLLARD

G30 RETRACTABLE BOLLARD

ONE 30^{EVO} RETRACTABLE BOLLARD

ONE 40^{EVO} RETRACTABLE BOLLARD

ONE 50^{EVO} RETRACTABLE BOLLARD

OVERVIEW

AUTOMATIC RETRACTABLE BOLLARDS

FEATURES AND OPTIONS		RETRACTABLE BOLLARD RANGE				
Model	G6N (H550mm) 	G6N (H750mm) 	G30 	ONE 30^{EVO} 	ONE 40^{EVO} 	ONE 50^{EVO} 
Resistance level						
Resistance to impact	From 1.5 T at 48 km/h to 2.5 T at 48 km/h (set of 2)		2.5 T at 48 km/h	7.5 T at 48 km/h	7.5 T at 64 km/h	7.5 T at 80 km/h
Crash-tested IWA-14:2013	-	-	✓	✓	✓	✓
Crash-tested PAS68	-	-	✓	✓	✓	✓
On-board hydraulic drive	✓	✓	✓	✓	✓	✓
Remote hydraulic drive	✓	✓	✓	✓	✓	✓
Pneumatic drive	✓	✓	-	-	-	-
Material	Casting	Casting	High resistance steel	High resistance steel	High resistance steel	High resistance steel
Thickness	11 mm	11 mm	12.5 mm	20 mm	36 mm	36 mm
Bollard diameter	250 mm	250 mm	250 mm	250 mm	250 mm	325 mm
Bollard height	550 mm	750 mm	750 mm	1000 mm	1000 mm	1000 mm
Depth of civil works (excluding drain)	930 mm	1130 mm	1095 mm	1965 mm	1965 mm	1965 mm
Voltage (depending on the version)	24 V - 230V	24 V - 230V	24 V - 230V	24 V - 400V	24 V - 400V	24 V - 400V
Extraction time	5 to 7 seconds	5 to 7 seconds	5 to 6 seconds	5 to 7 seconds	5 to 7 seconds	5 to 7 seconds
Retraction time	5 seconds	5 seconds	3 to 4 seconds	3 to 5 seconds	3 to 5 seconds	3 to 5 seconds
Retro reflective band	✓	✓	✓	✓	✓	✓
LED light ring	✓	✓	✓	✓	✓	✓
Interchangeable liner	✓	✓	✓	✓	✓	✓
EFO option (emergency lift in 1.5 sec.)	-	-	-	✓	✓	✓
Optional Battery	-	-	-	✓	✓	✓
Optional Drill	-	-	✓	✓	✓	✓
IP67	✓	✓	✓	✓	✓	✓
PMR	✓	✓	✓	✓	✓	✓
ISO EN 124	E600	E600	E600	F900	F900	F900
Available in Fixed version	-	-	✓	✓	✓	✓
Available in Removable version	-	-	-	✓	✓	✓
Available in Semi-automatic version	✓	✓	-	-	-	-

Three drives are available depending on the model of the removable bollard selected.

FEATURES AND OPTIONS OF DRIVES			
Standard Group	External Hydraulic 	Built-in Hydraulic 	Pneumatic 
Standard power consumption (kW)	0.55 1.1 1.5	0.33 2.2	0.54 0.92 1.42
Standard working pressure (bar)	50 50 70/90/110*	55 70/90/110*	5.5 to 7
Supply voltage (V)	230V 230V 400V	230 V 400 v	230 V
Standard pump flow rate (L/min)	5.4 8.8 9	4 9	60 105 195
Operating temperature (standard)	-20 to +55°C	-20 to +55°C	+5 to +55°C
Extraction time	5 to 7 seconds	5 to 7 seconds	5 to 7 seconds
Retraction time	3 to 5 seconds	3 to 5 seconds	3 to 5 seconds
Protection class	IP54	IP67	IP54
Compatible with G6 N bollard	✓	✓	✓
Compatible with G30 bollard	✓	✓	✓
Compatible with ONE EVO bollards	✓	✓	✓
Installation in a control unit	✓	-	✓
Installation in the bollard box	-	✓	-
EFO option (emergency lift in 1.5 sec.5 s)	✓ Specific group	✓	-
Optional Battery	✓	✓	-
Optional Drill	✓	-	-
Maximum number of bollards managed per group (depending on version)	1 to 6	1	1 to 10

* ONE 30 EVO / ONE 40 EVO / ONE 50 EVO

Moreover, there are **three functional variants**:



EFO

Emergency Fast Operation, this version allows an emergency lift in 1.5 seconds for the ONE^{EVO} high security range.



BATTERY

The hydraulic battery is used to raise the bollard in case of a power failure. When the hydraulic pump is running, it charges the battery. When pressurized, the battery will activate the bollard. It ensures the EFO emergency lift for on-board and remote hydraulic drives.



DRILL

The Drill system is a semi-automatic hydraulic remote drive, for occasional use, intended for G30 and ONE^{EVO} automatic bollards. It allows the bollards to be raised with a screwdriver and lowered using a lever.



THE AVAILABLE DRIVES

EXTERNAL HYDRAULIC UNIT

Pressurized oil supply for automatic bollards with hydraulic cylinders.
Remote installation in a technical control unit (1 hydraulic hose must connect the bollard to the technical control unit).

- SUITABLE FOR HEAVY-DUTY USE
- COMPATIBLE WITH ALL BOLLARD SIZES
- SINGLE-ACTING CYLINDER
- SIMPLIFIED MAINTENANCE AND OPERATIONS
- OPTIONAL MANUAL LIFT PUMP



BUILT-IN HYDRAULIC UNIT

On-board hydraulic drive positioned directly in the bollard box. No hydraulic hose between the bollard and the automation system.

- SUITABLE FOR HEAVY-DUTY USE
- INCREASED CONNECTION DISTANCES
- SINGLE-ACTING CYLINDER
- SILENT OPERATION
- SPACE SAVING AT THE CONTROL UNIT LEVEL
- EASY CONNECTION



PNEUMATIC COMPRESSOR

Compressed air supply for automatic bollards with pneumatic cylinders.
An electric motor drives a compressor with oil-free technology for operation in all positions.

- SUITABLE FOR OCCASSIONAL USE
- ACCESSIBLE SOLUTION
- LOW MAINTENANCE COST
- ENVIRONMENTALLY FRIENDLY SYSTEM
- EASY CONNECTION
- ENABLES CONTROL OF UP TO 10 BOLLARDS (DEPENDING ON THE SIZE OF THE BOLLARDS)



NEW PRODUCT G6N



CAME URBACO has evolved its historic G6 model. A version that combines the legendary reliability of the G6 with the innovative customization of the G6^{EV} and the strength of integrated improvements. Always attentive to feedback, our Research and Development department has re-examined its flagship bollard to propose areas for improvement

Keeping its potential and its assets, the new version of the new **G6** bollard now has new advantages that will appeal to vehicular access control projects where security is not an issue.



ITS NEW STRENGTHS

- +** **Improved head stability: No adjustment required | Constant Stability**
Thanks to a new system, the centering of the bollard head is simple and stable over time.
- +** **One box: Easy to install and maintain**
The housing, which is common to all drives, does not undergo any modification before assembly, which ensures consistent quality, ease of assembly and easier maintenance. The opening and fixing points necessary for the installation of the various supports are standardized.
- +** **A common and mobile quick connector: Simplified maintenance**
All major electrical connections are reduced to a quick connector with common power supply. The cable routing is then simplified and common to all types of "drives" and the maintenance of the entire system is considerably improved. This quick connector is mounted on a bracket that can easily be removed from the housing.
- +** **Common and interchangeable accessory supports: Optimized handling**
Regardless of the drive unit, all brackets have the same mounting logic in the housing.
- +** **LED strip and light ring upgrade: Improved signaling & strength**
The new design of the light ring improves the aesthetics of the bollard, provides greater luminosity, improves the fit of the liner, ensures greater watertightness and allows for quick replacement of the LED strip.
- +** **A design preserved by a special seal: Long-term aesthetics**
A brush seal prevents the entry of dust and thus reduces the risk of scratching the liners. It can be easily replaced if it becomes worn over time.





Resistance equivalent from a **1.5T** vehicle traveling at **48 km/h*** to **2.5T** traveling at **48 km/h*** (per set of 2 bollards)
> 133 kJ & 238 kJ

CHARACTERISTICS	
Raw head material	Casting
Liner materials	Stainless steel 304 L Stainless steel 316 L
Thickness	11 mm
Bollard diameter	250 mm
Bollard height	550 mm 750 mm
Depth of civil works (excluding drain)	930 mm 1130 mm
Voltage (depending on the version)	24V - 230V
Extraction time	5 to 7 seconds
Retraction time	5 seconds
Standard positive security	Lowering the bollard in the event of a power failure
IP67	Dust-tight and immersion-proof

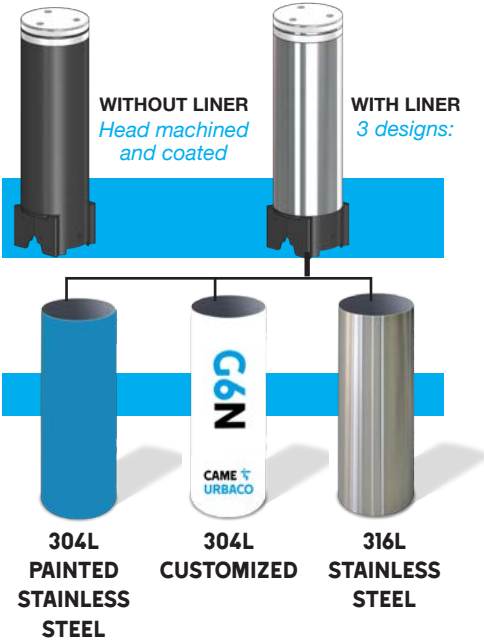
*Equivalence based on mathematical simulation

MONOBLOC® CONCEPT

Raw head, Raw head, casing and cover made of cast iron, with an average thickness of 11mm, each cast in one piece, without welds or wear parts.

INTERCHANGEABLE LINER CONCEPT (OPTIONAL HEAD WITH LINER VERSION)

An innovative system of interchangeable liners allows the visual aspect of the access to be personalized and damaged bollard heads to be refurbished in less than 5 minutes.



COMPATIBILITY AND OPTIONS

DESIGN & SIGNALING
RAL to choose from Stainless steel 316L or customized liner Retro reflective band Light ring LED diffuser on the cap
DRIVE
External hydraulic Built-in hydraulic Pneumatic compressor

OPTIONS
Heater Heated cable and connector Negative security (depending on drive)
ACCESS CONTROL SOLUTION
Automation system Function logic Safety loops Equipment: Control boxes/ Panels / Totems

AUTOMATIC RETRACTABLE BOLLARDS

G6N

SAFE DEVICES

The new **G6** retractable bollard, new version of the original CAME URBACO model, with customizable design, fits perfectly into all urban development and access protection projects. With its innovative system of interchangeable liners, can be used to customize the installation site, making it unique. It retracts into the ground thanks to a remote control (remote control, contactless card, keypad, etc.), thus leaving the lane free, and rises again automatically when the vehicle passes.



AVAILABLE DRIVES



ITS STRENGTHS

AVAILABLE IN

SEMI-AUTOMATIC

- Customized interchangeable liner
- Fast and economical maintenance
- Resistance to impact : from a 1.5 T at 48km/h to a 2.5 T at 48km/h
- A new and improved version
- A time-tested bollard that has proven its worth
- ISO EN 124 – E600



Impact resistance of a 2.5T pick-up truck traveling at 48 km/h > 238 kJ



CHARACTERISTICS	
Materials	High resistance steel
Thickness	12.5 mm
Structure treatment	Hot-dip galvanizing (anti-corrosion)
Bollard diameter	250 mm
Bollard height	750 mm
Depth of civil works (excluding drain)	1095 mm
Voltage (depending on the version)	24V - 230V
Extraction time	5 to 6 seconds
Retraction time	3 to 4 seconds
Standard positive security	Lowering the bollard in the event of a power failure
IP67	Dust-tight and immersion-proof

CRASH TEST

Demonstrates the safety level of the G30 bollard stopping a 2.5 T pick-up truck traveling at 48 km/h.
Certified according to international standards: IWA 14-1:2013 & PAS68:2013
> Penetration after the obstacle 0.6 meters



INTERCHANGABLE LINER CONCEPT

An innovative system allowing to customize the visual aspect of the access and to refurbish damaged bollard heads in less than 5 minutes.

COMPATIBILITY AND OPTIONS

DESIGN & SIGNALING
Customized 304L stainless steel liner Stainless steel 304L liner painted RAL of your choice Stainless steel 316L liner + Retro reflective band + Light ring
DRIVE
External hydraulic Built-in hydraulic

OPTIONS
Remote hydraulic unit On-board hydraulic unit Heater Heated cable and connector Negative security (depending on drive)
ACCESS CONTROL SOLUTION
Automation system Function logic Safety loops Equipment: Control boxes/ Panels / Totems

AUTOMATIC RETRACTABLE BOLLARDS

G30

The G30 hybrid bollard is compatible with stand-alone or centralized access control projects with a safety aspect. Designed to control frequented accesses in urban areas, it is perfectly adapted to protect strategic areas such as schools, shopping centers or hotels where the safety of goods and people is paramount.



AVAILABLE DRIVES



FUNCTIONAL OPTION



H

ITS STRENGTHS

AVAILABLE IN
FIXED VERSION



- Crash tested, certified impact resistance
- Accessible safety solution
- Impact resistance: a 2.5 T truck at 48km/h
- Penetration after impact less than 1m
- ISO EN 124 – E600
- Customized liner
- Interchangeable liner and quick connection: easier maintenance





Impact resistance of a 7.5T truck traveling at 48 km/h > 681.2 kJ



CHARACTERISTICS	
Materials	High resistance steel
Thickness	20 mm
Structure treatment	Hot-dip galvanizing (anti-corrosion)
Bollard diameter	250 mm
Bollard height	1000 mm
Depth of civil works (excluding drain)	1965 mm
Voltage (depending on the version)	24V - 400V
Extraction time	5 to 7 seconds
Retraction time	3 to 5 seconds
Standard negative security	Keeps the bollard in position in the event of a power failure
IP67	Dust-tight and immersion-proof

CRASH TEST

Demonstrates the high safety level of the ONE30^{EVO} bollard stopping a 7.5 T truck traveling at 48 km/h.

Certified according to international standards: IWA 14-1:2013 & PAS68:2013

> Penetration after the obstacle 0 meters



INTERCHANGABLE LINER CONCEPT

An innovative system allowing to customize the visual aspect of the access and to refurbish damaged bollard heads in less than 5 minutes.

COMPATIBILITY AND OPTIONS

DESIGN & SIGNALING
Customized 304L stainless steel liner Stainless steel 304L liner painted RAL of your choice Stainless steel 316L liner + Retro reflective band + Light ring
DRIVE
External hydraulic Built-in hydraulic

OPTIONS
Emergency lift (E.F.O., in 1.5 sec.) Rainwater pump Audible motion alarm Frost-free system -20°C or -50°C High/low damper (remote)
ACCESS CONTROL SOLUTION
Automation system Function logic Safety loops Equipment: Control boxes/ Panels / Totems

AUTOMATIC RETRACTABLE BOLLARDS

ONE30^{EVO}

The ONE30^{EVO} retractable bollard, high security device, is designed to control access to sensitive sites and protect strategic access points from ram-vehicle attacks. It always ensures safe access after impact.



AVAILABLE DRIVES



FUNCTIONAL OPTIONS



H & HE

H & HE

H

ITS STRENGTHS



- Crash tested, certified impact resistance
- Certified according to international standards
- Impact resistance: 7.5 T at 48 km/h
- Penetration after impact: 0m
- One bollard is enough to stop the truck
- Customized/interchangeable liner
- ISO EN 124 - Class F900 (up to 90T)
- EFO option: emergency lift in 1.5 sec.



Impact resistance of a 7.5T truck traveling at 64 km/h > 1.290 kJ



CHARACTERISTICS	
Materials	High resistance steel
Thickness	36 mm
Structure treatment	Hot-dip galvanizing (anti-corrosion)
Bollard diameter	250 mm
Bollard height	1000 mm
Depth of civil works (excluding drain)	1965 mm
Voltage (depending on the version)	24V - 400V
Extraction time	5 to 7 seconds
Retraction time	3 to 5 seconds
Standard negative security	Keeps the bollard in position in the event of a power failure
IP67	Dust-tight and immersion-proof

CRASH TEST

Demonstrates the high safety level of the ONE40^{EVO} bollard stopping a 7.5 T truck traveling at 64 km/h.

Certified according to international standards: IWA 14-1:2013 & PAS68:2013

> Penetration after the obstacle 2.6 meters



INTERCHANGABLE LINER CONCEPT

An innovative system allowing to customize the visual aspect of the access and to refurbish damaged bollard heads in less than 5 minutes.

COMPATIBILITY AND OPTIONS

DESIGN & SIGNALING
Customized 304L stainless steel liner Stainless steel 304L liner painted RAL of your choice Stainless steel 316L liner + Retro reflective band + Light ring
DRIVE
External hydraulic Built-in hydraulic

OPTIONS
Emergency lift (E.F.O., in 1.5 sec.) Rainwater pump Audible motion alarm Frost-free system -20°C or -50°C High/low damper (remote)
ACCESS CONTROL SOLUTION
Automation system Function logic Safety loops Equipment: Control boxes/ Panels / Totems

AUTOMATIC RETRACTABLE BOLLARDS

ONE40^{EVO}

The ONE40^{EVO} retractable bollard, high security device, is designed to control access to sensitive sites and protect strategic access points from ram-vehicle attacks. It always ensures safe access after impact.



AVAILABLE DRIVES



FUNCTIONAL OPTIONS



H & HE

H & HE

H

ITS STRENGTHS



- Crash tested, certified impact resistance
- Certified according to international standards
- Impact resistance: 7.5 T at 64km/h
- Low penetration after impact
- One bollard is enough to stop the truck
- Customized/interchangeable liner
- ISO EN 124 - Class F900 (up to 90T)
- EFO option: emergency lift in 1.5 sec.



Resistance to the impact of two consecutive **7.5T** trucks traveling at **80 km/h**
> **1 776 kJ** : 1st crash-test / **1765 kJ** : 2nd crash-test



CHARACTERISTICS	
Materials	High resistance steel
Thickness	36 mm
Structure treatment	Hot-dip galvanizing (anti-corrosion)
Bollard diameter	325 mm
Bollard height	1000 mm
Depth of civil works (excluding drain)	1965 mm
Voltage (depending on the version)	24V - 400V
Extraction time	5 to 7 seconds
Retraction time	3 to 5 seconds
Standard negative security	Keeps the bollard in position in the event of a power failure
IP67	Dust-tight and immersion-proof

CRASH TEST

Demonstrates the high safety level of the ONE50^{EVO} bollard stopping a **7.5 T truck** traveling at **80 km/h**.

Certified according to international standards:
IWA 14-1:2013 & PAS68:2013

> Penetration after the obstacle **4.2** meters



INTERCHANGABLE LINER CONCEPT

An innovative system allowing to customize the visual aspect of the access and to refurbish damaged bollard heads in less than 5 minutes.

COMPATIBILITY AND OPTIONS

DESIGN & SIGNALING
Customized 304L stainless steel liner Stainless steel 304L liner painted RAL of your choice Stainless steel 316L liner + Retro reflective band + Light ring
DRIVE
External hydraulic Built-in hydraulic

OPTIONS
Emergency lift (E.F.O., in 1.5 sec.) Rainwater pump Audible motion alarm Frost-free system -20°C or -50°C High/low damper (remote)
ACCESS CONTROL SOLUTION
Automation system Function logic Safety loops Equipment: Control boxes/ Panels / Totems

AUTOMATIC RETRACTABLE BOLLARDS

ONE50^{EVO}

The **ONE50^{EVO}** retractable bollard, high security device, is designed to control access to sensitive sites and protect strategic access points from ram-vehicle attacks. It always ensures safe access after two consecutive impacts.



CRASH-TESTED
1ST BOLLARD IN THE WORLD TO RESIST THE IMPACT OF 2 CONSECUTIVE TRUCKS TRAVELING AT 80KM/H



AVAILABLE DRIVES



FUNCTIONAL OPTIONS



H & HE

H & HE

H

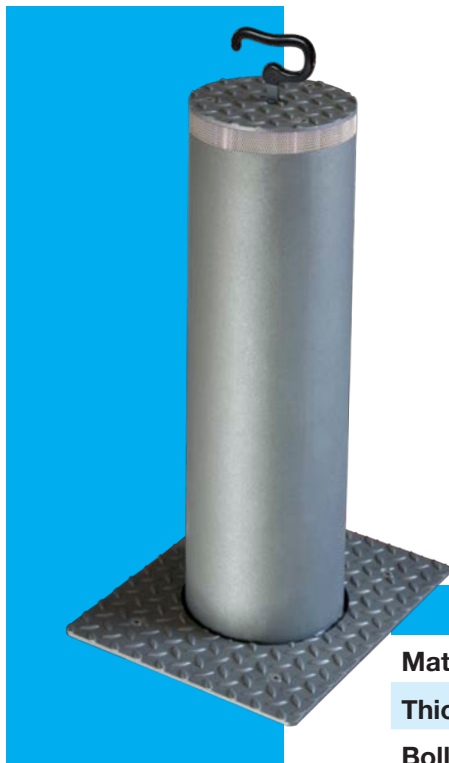
ITS STRENGTHS



- Resistance to 2 7.5T trucks traveling at 80km/h
- Double crash test by one bollard.
- Certified according to international standards
- One bollard is enough to stop the truck
- Customized/interchangeable liner
- ISO EN 124 - Class F900 (up to 90T)
- EFO option :emergency lift in 1.5 sec.

BMM

MECHANICAL MANUAL BOLLARDS



The **M**echanical **M**anual **B**ollard is the recommended solution to block an access, while allowing its occasional opening. With no drive or cylinder gas assistance, the BMM is the only manually retractable bollard.

CHARACTERISTICS

Materials	Steel
Thickness	4 mm
Bollard diameter	200 mm
Bollard height	640 mm
Depth of civil works (excluding drain)	1205 mm
Unlocking wrench	E11

ITS STRENGTHS

OPERATION

The locking and the raising and lowering operations are carried out thanks to a specific E11 wrench with lugs that is inserted on top of the bollard (system compatible with the fireman's spanner wrench).

ACCESSORIES & OPTIONALS

RAL color of your choice	optional
Retro reflective band	optional
Extra handle for handling	optional

- Closing or opening an access very occasionally
- Possibility to leave the bollard in low position
- Economical retractable solution

SEMI-AUTOMATIC RETRACTABLE BOLLARDS

BEM G6N



The **r**emovable **s**emi-**a**utomatic bollard is a system designed to free up access on a very occasional basis. Therefore, it is recommended where the access frequency is low. The semi-automatic bollard is also the ideal access control solution in areas without electrical connections.

CHARACTERISTICS

Materials	Casting
Thickness	11 mm
Bollard diameter	250 mm
Bollard height	550 mm 750 mm
Depth of civil works (excluding drain)	930 mm 1130 mm
Imprint	T11 (specific optional features)

ITS STRENGTHS

OPERATION

The bollard is set in motion by a wrench that unlocks the mechanism. A push on the bollard head allows the bollard to be lowered into the ground, the lower lock is automatic. Then, by turning the wrench, the bollard rises by itself and locks in the upper position.

ACCESSORIES & OPTIONALS

RAL color of your choice	optional
Set of 2 lifting rings	optional
Retro reflective band	optional
Specific imprints	optional
Vandal-proof screws	optional

- Access control without power supply
- Occasional opening of an access
- G6N Robustness
- Monobloc Concept
- 11mm thick cast iron: Non-deformable

ROAD BLOCKER

The Road Blocker completes the range of CAME URBACO high security solutions. It provides secure access by covering the entire width of the passageway.

ROAD BLOCKER HRB SHLW





Impact resistance of a **7.5T** truck traveling at **80 km/h**
> **1879 kJ**



CHARACTERISTICS	
Materials	High resistance steel
Structure treatment	Hot-dip galvanizing (anti-corrosion)
Obstacle width (mm)	1000 1500 2000 2500 3000 3500 4000 4500 5000 5500 6000 6500
Obstacle height	900 mm
Civil works depth	400 mm
Retraction time	3 to 5 seconds
IP68	Dust-tight and immersion-proof

CRASH TEST

Demonstrates the high degree of security of the HRB30 P90 SHLW road blocker stopping a **7.5 T truck** traveling at **80 km/h**.

Certified according to international standards:
IWA 14-1:2013 & PAS68:2013 & ASTM 2656-18
> Penetration after the obstacle **-2.2 meters**



COMPATIBILITY AND OPTIONS

DESIGN & SIGNALING
RAL paint (color of your choice) STOP marking on shield
DRIVE
Remote hydraulic unit

OPTIONS
Emergency lift (E.F.O., in 1.5 sec.) High/low damper
ACCESS CONTROL SOLUTION
Automation system Function logic Safety loops Equipment: Control Panels

**ROAD BLOCKER
SHALLOW MOUNT**

The anti-intrusion **Road blocker** is designed to prevent unauthorized vehicles from entering a secure perimeter. It provides the highest level of ram protection by withstanding the impact of a 7.5T truck at 80km/h. This **shallow mount** model allows an easy installation because of its shallow embedding depth.

HRB SHLW



AVAILABLE DRIVES



FUNCTIONAL OPTIONS

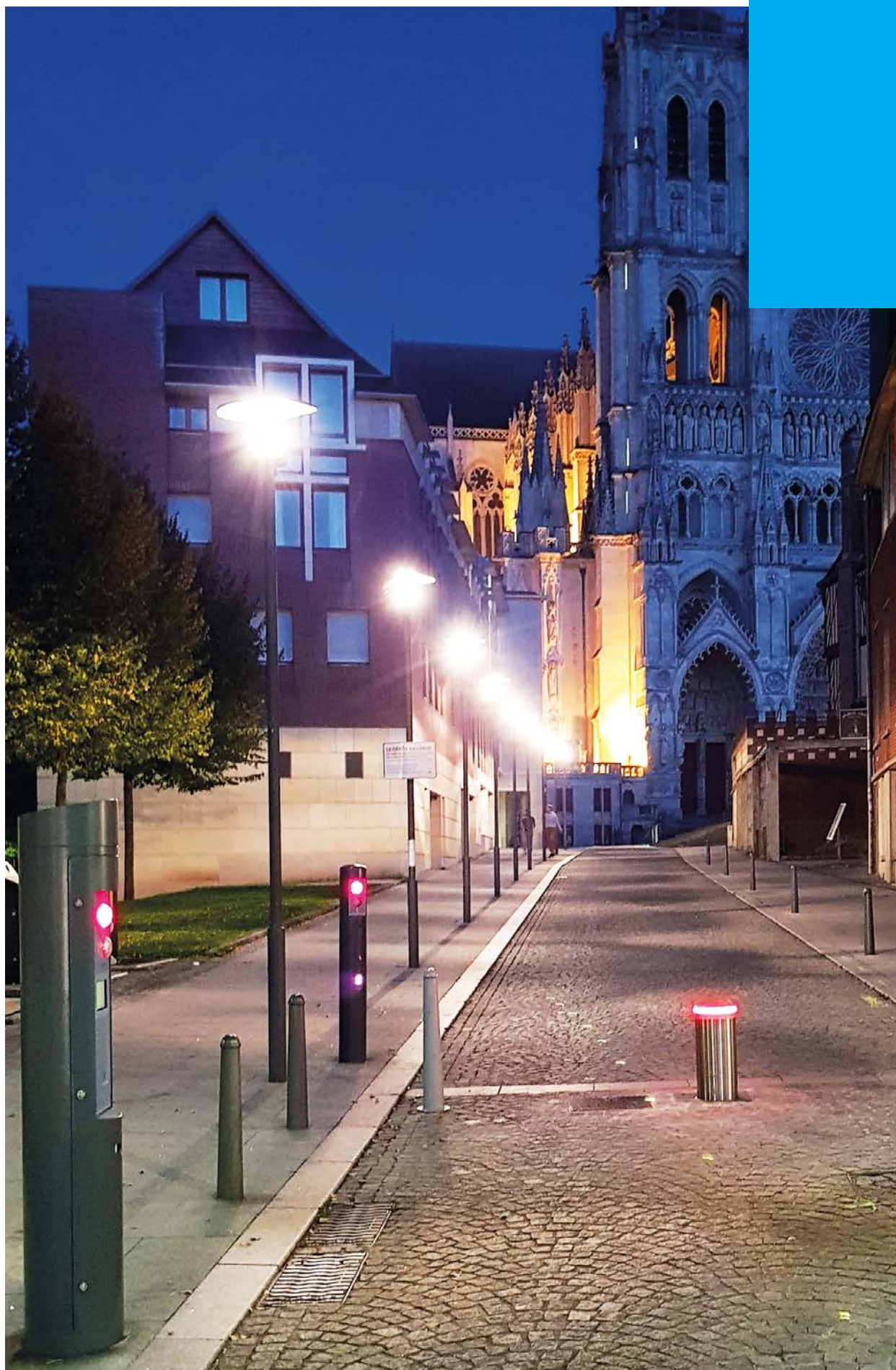


**ITS
STRENGTHS**

**CONTACT US FOR OTHER
VERSIONS**



-  Crash tested, certified impact resistance
-  Certified according to international standards
-  Impact resistance: 7.5 T at 80km/h
-  Low penetration after impact
-  A road blocker is enough to stop a truck
-  Low embedding depth
-  EFO option: emergency lift in 1.5 sec.
-  Optional battery: rise in the case of a power failure



SMART DEVICES

CAME URBACO designs modular solutions for managing urban access control with a security dimension. A range of complementary **equipment** houses the bollard **control systems**.

The **Sygma 4** management software offers **the centralization of equipped accesses**.

Its **“intelligent” and evolutionary devices** respond to the city of tomorrow: SAFE & SMART, a connected city thanks to open solutions that communicate with each other but also with existing facilities.

CONTROL PANELS AND TOTEEMS

The control boxes, control panels and totems are street fixtures that integrate the bollard's automation elements (automatic control panel, control devices, signaling devices). Integrating perfectly into the urban environment, they allow the management of several bollards simultaneously or individually.

CONTROL BOXES AND PANELS

TOTEM CITY 1

TOTEM CITY 2N

TOTEM CITY 6^{EVO}

OVERVIEW
OF CONTROL EQUIPMENT AND
TOTEMS

FEATURES AND OPTIONS OF CONTROL EQUIPMENT AND TOTEMS							
Key		Model	CONTROL BOX	CONTROL PANEL	CITY 1	CITY 2N	CITY 6 ^{EVO}
✓ COMPATIBLE ✓ COMPATIBLE WITH YOUR CHOICE (LIMITED SPACE) ✕ NOT COMPATIBLE							
Capacity level							
Material (standard)			Steel	Aluminum	Steel	Steel	Steel
Compatible PLCs	U20T		✓	✓	✓	✓	✓
	LOGO		✓	✓	✕	✓	✓
	COMPUTER PANEL		✕	✕	✕	✕	✓
	INDUS COMPUTER		✓	✓	✕	✕	✓
Integrable Drives	On-board hydraulic		✓	✓	✓	✓	✓
	Remote hydraulic		✓	✓	✕	✕	✓
	Pneumatic		✓	✓	✕	✕	✓
Compatible signaling devices	One light		✕	✕	✕	✕	✓
	Two-tone lights		✕	✕	✓	✓	✓
	Supplementary Light models		✕	✕	✕	✕	✓
Compatible control devices	Radio receiver Remote control		✓	✓	✓	✓	✓
	Badge reader		✕	✕	✓	✓	✓
	Bluetooth reader		✕	✕	✕	✓	✓
	Intercom system		✕	✕	✕	✓	✓
	Code keypad		✕	✕	✕	✓	✓
	QR code reader		✕	✕	✕	✕	✓
	License plate recognition camera		✕	✕	✕	✕	✓
	Push button		✕	✕	✕	✓	✓
	GSM / telephone		✕	✕	✕	✓	✓
	delivery button		✕	✕	✕	✓	✓
	Télétag		✕	✕	✕	✕	✓
Tactile screen interface			✕	✕	✕	✕	✓

CONTROLLED ACCESS PARTS

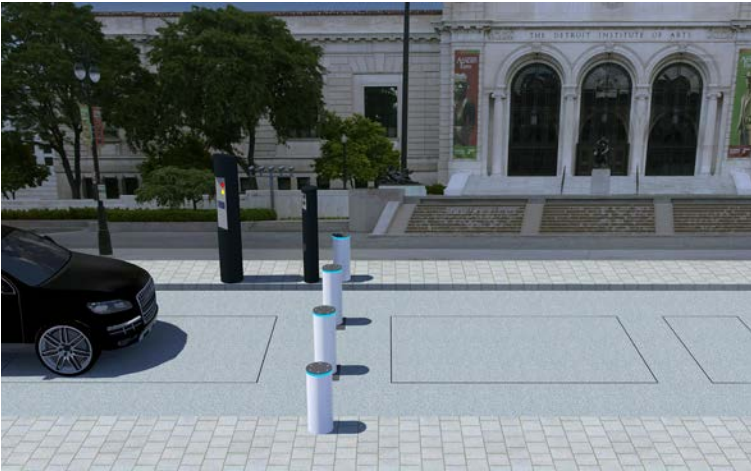
RETRACTABLE BOLLARDS: One or more automatic retractable bollards, installed in the vehicle lane, which allow or prohibit access

MANAGEMENT SYSTEM: A Technical Control Unit in a control box, a control panel, a City 1 V or City 6^{EVO} controller receive the user's instructions

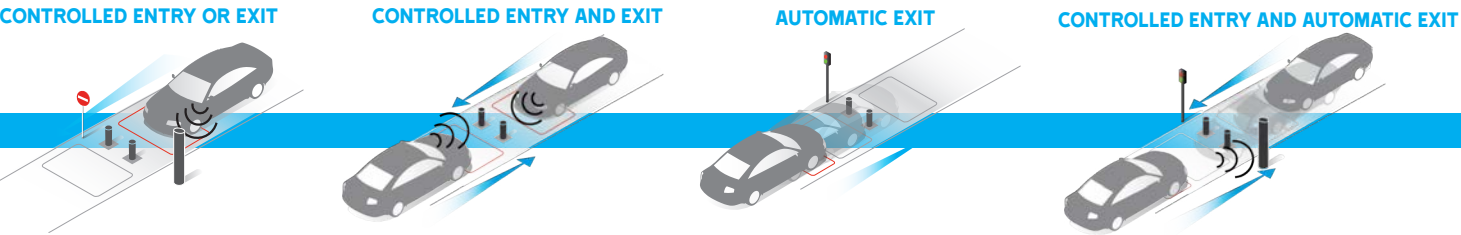
CONTROL DEVICES: Devices that deliver the right of way by: radio remote control, contactless badge, push button, code keyboard, license plate recognition, etc.

PLC: A PLC manages the access operation. It gives the opening or closing command and supplies the necessary energy to the drive to activate the movement of the bollards.

SAFETY LOOPS: An electromagnetic detection placed in the ground indicates the presence or absence of vehicles. A loop detects the presence of a vehicle above and validates the request to open the access. A safety loop keeps the passage open until the vehicle has passed.



SEVERAL OPERATING LOGICS ARE PROPOSED:



TWO TYPES OF ACCESS MANAGEMENT:

ACCESS CONTROL OVER **SELF-CONTROLLED SITE:** Access management is done on site.

ACCESS CONTROL OVER **CENTRALIZED SITE:** Access management is done remotely.

MANAGED PRODUCT LINES, OPEN SOLUTIONS:



CAME URBACO offers customized management compatible with all the brand's ranges. CAME URBACO controllers thus manage bollards, roadblockers and barriers controlled by various control devices. Access control solutions allow to use open protocols such as Modbus (LOGO), ONVIF (INDUS COMPUTER), Web API (INDUS COMPUTER).

ACCESS MANAGEMENT SYSTEM

The CAME URBACO technical control units designed for automatic bollards make it possible to create complete and functional systems, because of their original parts and the maximum possible expansion of the equipment. The electronics are specific to the drive of the bollards. The control units allow the management and control of several bollards simultaneously or individually and are designed to receive any necessary extension, both in terms of control and security.

EXAMPLES OF TECHNICAL CONTROL UNITS

SIMPLIFIED SOLUTION
ACCESS CONTROL MANAGEMENT
AUTONOMOUS on site

PARTS	
Drive	Built-in hydraulic / External hydraulic / pneumatic
PLC	LOGO (configurable industrial PLC) management of loops and controls
or Control Card	U20T (HE) U200 (P)
Control devices	Radio remote control-transmitter



ADVANCED SOLUTION
HIGH SECURITY ACCESS CONTROL MANAGEMENT
CENTRALIZED on site

PARTS	
Drive	Built-in hydraulic / External hydraulic / pneumatic
PLC	LOGO (configurable industrial PLC) management of loops and controls
Computer Panel	Industrial computer
Control devices	City 6 EVO options
Modulable	Integration of solutions made to measure



CONTROL BOX

EQUIPMENT TECHNICAL CONTROL UNIT

The control box is a wall-mounted piece of equipment that houses the management and control elements of a retractable bollard access system. It is installed in a technical room.



CHARACTERISTICS	
Material	Steel
Thickness	2 mm
Dimensions (mm)	600x400x250 600x600x250 800X600X250 1000X800X400
Mounting	Wall
Protection class	IP54
Locking	Handle
Colors	RAL 7035
Integrable devices	Remote hydraulic On-board hydraulic Pneumatic

ITS
STRENGTHS

-  Compact and robust
-  Key operated lock
-  No civil engineering needed
-  Economical solution

ACCESSORIES & OPTIONS	
Wall mounting (brackets)	included
30M³ fan	included
Polyester coating	optional

EQUIPMENT TECHNICAL CONTROL UNIT

The technical panel is installed on the roadway and contains the automation to control the Came Urbaco bollards. Provided with a large interior volume, it enables to integrate the automatism, the protective devices, the terminal boards and the control devices on a grid. Depending on the bollard drive system, its interior volume can accommodate the remote hydraulic unit(s), pneumatic compressor(s), etc.



CHARACTERISTICS	
Material	Aluminum
Thickness	2 mm
Dimensions (mm)	800x1000x400 1100x1000x650 1516X800X500 1516X1200X800 1966x1200x1100
Mounting	Ground anchoring
Protection class	IP54
Locking	Key operated lock
Colors (depending on model)	RAL 1015 RAL 7016
Compatible drives	Remote hydraulic On-board hydraulic Pneumatic

ITS
STRENGTHS

ACCESSORIES & OPTIONS	
40m³ or 120m³ fan	optional

RAL 1015 VERSION



-  Durability and corrosion resistance
-  Large capacity
-  Key operated lock
-  IP54

CHARACTERISTICS	
Material	Steel
Thickness	6 mm
Diameter	194 mm
Height	1425 mm
Locking	Specific lock
Colors	RAL of your choice
Ventilation	Natural
IP54	Protected against dust and water splashes

COMPATIBLE CONTROL UNITS OPTIONAL

RADIO RECEIVER

Remote control access



LAPI SYSTEM

License plate reader camera



CODE KEYPAD

Access limited by a security code



COMPATIBLE SIGNALING UNITS OPTIONAL

TWO-TONE LIGHTS

Red and orange signaling lights



INTEGRATED CONTROL ELEMENTS

ON-BOARD HYDRAULIC PLATE

Management of up to 2 bollards



ADDITIONAL OPTIONALS

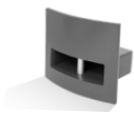
EMERGENCY STOP BUTTON

Push button



BOLT CUTTER

Emergency stop (with clamp)



MANAGEMENT CONTROLLER
TOTEM

CITY 1

The City 1 controller is used alone or in addition to a City 6^{EVO}. It can accommodate lights, a license plate reading sensor (LPR), without automation. The City is designed to be mounted on the ground on a base allowing a 360° rotation.



ITS
STRENGTHS



FRONT PANEL

Customizable, can integrate the badge reader, intercom, keypad, two-color lights, etc.

EMERGENCY STOP DOOR OR BOLT CUTTER
(OPTIONAL)

With fireman's square wrench imprint lock and mushroom push button (optional)

TECHNICAL DOOR

With specific anti-vandal lock

LAPI CAMERA

License plate reader

BASE PLATE
FOR SEALING

-  Made of durable steel
-  Space-saving (on the road)
-  360° swivel
-  Compatible with simple solutions
-  Works alone with bollards on-board hydraulic for 2 bollards
-  Works in conjunction with the City 6^{EVO}

CHARACTERISTICS	
Material	Steel
Thickness	2 mm
Dimensions	214 x 260 mm
Height	1551 mm
Locking	3 locks
Finishing	RAL7016 powder coating
Ventilation	41 m³/h fan
IP54	Protected against dust and water splashes

COMPATIBLE CONTROL UNITS OPTIONAL

RADIO RECEIVER

Remote control access



BADGE READER

RFID



CODE KEYPAD

Access limited by a security code



BLUETOOTH READER

Access management from the phone



COMPATIBLE SINGALING UNITS OPTIONAL

TWO-TONE LIGHTS

Red and orange signaling lights
Front, right and/or left



INTEGRATED CONTROL ELEMENTS

ON-BOARD HYDRAULIC PLATE

Management of up to 6 bollards



ADDITIONAL OPTIONALS

SPECIFIC SCREEN PRINTING

Front panel customization



BOLT CUTTER

Emergency stop (with clamp)



MANAGEMENT CONTROLLER TOTEM

CITY 2N

The CAME URBACO CITY 2N is a cost-effective and aesthetically pleasing management controller solution that offers an integrated user interface. This equipment includes the automation elements such as badge readers, code keypads, front and side signal lights and/or operating logics.



SIGNALING LIGHTS (OPTIONAL)
Two-tone lights on the front, right and/or left side of the totem (optional)

FRONT PANEL
Customizable, can integrate the badge reader, intercom, keypad, two-color lights, etc.

TECHNICAL DOOR
With specific anti-vandal lock

BOLT CUTTER (OPTIONAL)

BASE PLATE FOR SEALING

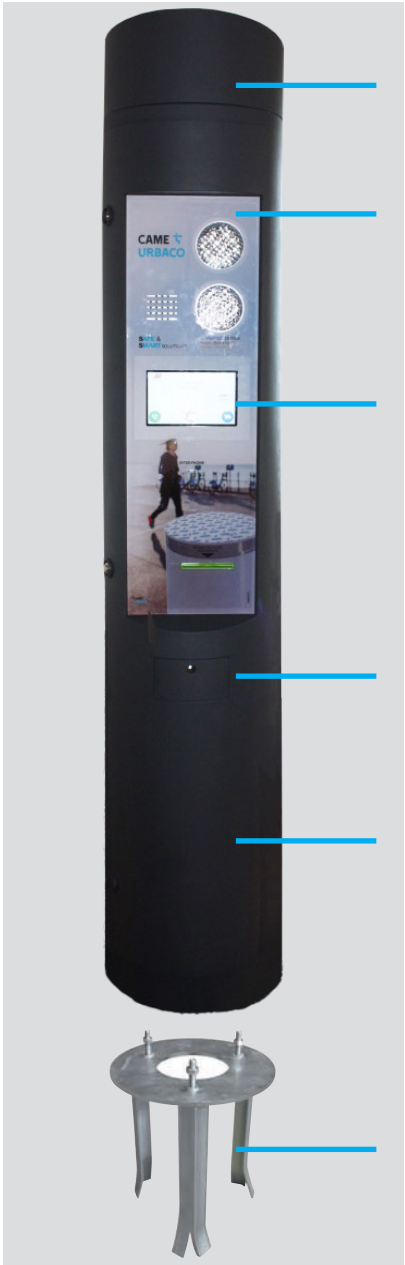
ITS STRENGTHS

- Made of durable steel
- Its ergonomic shape: possible to optimize the interior space to integrate the plates
- Compatible with On-board hydraulic G6N and G30 bollards
- Double traffic lights on the sides
- Management of up to 6 bollards

MANAGEMENT
CONTROLLER TOTEM

CITY 6EVO

Thanks to its large volume, the City 6Evo totem allows to house the automation plate and drive (remote hydraulic unit, pneumatic compressor, etc.). It can also accommodate network hardware. With its modular construction, it offers the freedom to add modules in the upper part, allowing for customized solutions.



ADDITIONAL MODULES
Signage and interface adapted to high vehicles

FRONT PANEL
Customizable, can integrate the badge reader, intercom, keypad, two-color lights, etc.

TOUCH SCREEN
Easy to connect call button, delivery button, keypad, etc.
Customizable interface

EMERGENCY STOP DOOR WITH BUTTON OR BOLT CUTTER (OPTIONAL)
With fireman's square wrench imprint lock and mushroom push button (optional)

TECHNICAL DOOR
With specific anti-vandal lock

BASE PLATE FOR SEALING

ITS STRENGTHS

- Made of durable steel
- 360° swivel
- Suitable for advanced solutions
- Modulable
- Compatible with all types of bollards
- Numerous control devices to choose from
- Integration study for a customized solution

CHARACTERISTICS

Material	Steel
Thickness	6 mm
Diameter	323 mm
Height	1860 mm
Locking	3 locks
Colors	RAL of your choice
Insulation	Thermal and sound insulation, thickness 5 mm (with H and P actuators)
Ventilation	At the top and bottom, maintaining the air flow
IP54	Protected against dust and water splashes

COMPATIBLE CONTROL UNITS OPTIONAL

RADIO RECEIVER

Remote control access



BADGE READER

RFID, Mifare (long range)



QR CODE READER

QR code and barcode



VIGIK READER

Access pass badge



BLUETOOTH READER

Access management from the phone



INTERCOM SYSTEM

Audio intercom



LAPI SYSTEM

License plate reader camera



CAMERA

Pinhole color



TACTILE SCREEN INTERFACE

Call button, delivery button, keypad, etc.



COMPATIBLE SIGNALING DEVICES OPTIONAL

TWO-TONE LIGHTS

Ø100 yellow and red signal lights



ONE LIGHT

Ø200 red signal light



INTEGRATED CONTROL ELEMENTS

REMOTE HYDRAULIC UNIT AND PLATE

Management of up to 2 bollards



ON-BOARD HYDRAULIC PLATE

Management of up to 6 bollards



PNEUMATIC COMPRESSOR AND PLATE

Management of up to 2 bollards



ADDITIONAL OPTIONS

ADDITIONAL MODULES

Single and double sided different sizes



BOLT CUTTER

Emergency stop (with clamp)



TICKET PRINTER

With collection tray



ADDITIONAL MODULES

360° swiveling to enhance signage and ease of access



CENTRALIZED TECHNICAL CONTROL

The Access Control Management System has been developed for the centralization of retractable bollard access control.

SYGMA 4 enables to manage all the remote control devices on several controlled sites.

SYGMA 4





CHARACTERISTICS

- Multi-database
- Client (WEB) / server architecture
- Local or Cloud hosting on a Window server
- Interoperability with other systems
- Multi-support (Tablet, Smartphone, etc.)
- E-Identification (NFC,QRCODE, Bluetooth, etc.)
- Multi-protocol (Onvif , WEBAPI, Modbus, etc.)

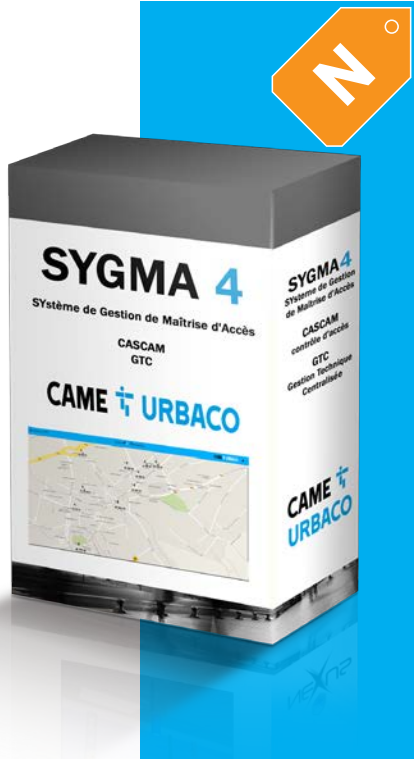
GENERAL FUNCTIONS

- Management of access rights
- Possibility of making statements via a website
- Supervision
- Intervention management
- Dynamic statistics management
- Access management (integrated PC)
- Management configuration (Access control, etc.)

SUPERVISOR REMOTE MANAGEMENT OF ACCESSES

SYGMA 4

The CAME URBACO access management solution is part of a **global centralization of all Safe & Smart devices** present in a defined perimeter.
Hosted on a web server, SYGMA 4 is directly accessible online
Compatible with **open protocols** such as **Modbus, ONVIF, Web Service**, it can meet the requirements of third-party hypervisors to establish remote management and access reporting.



SYGMA 4 SCREEN VIEW AND FEATURES



SUPERVISION

Visualization of the overall access conditions

Open/closed access, faults, loops active or illegal parking...

Remote access control

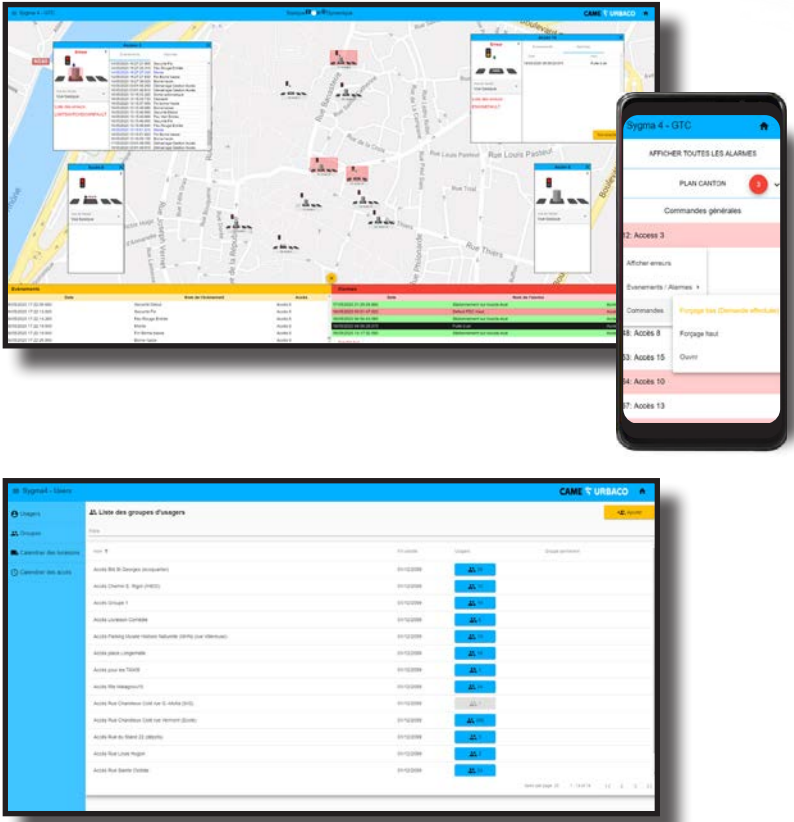
Simple opening, with ticket, low-level forcing

Direct diagnosis of all access parts.

Bollard, PLC, loops, compressor, lights, emergency mushroom button, clock, reader, connections...
Event, alarm and fault logging system

Real-time statistics

Condition graphs: transits and anomalies



ITS STRENGTHS

- A web-based monitoring solution
- Traceability and information feedback
- Accessible anywhere at any time
- Can be integrated into hypervision systems
- Compatible with open protocols



CENTRALIZED
CONTROL

SMART
DEVICES

OPEN SYSTEM

CAME URBACO's access control solutions make it possible to use open protocols such as Modbus, ONVIF, Web Service.

CAME URBACO management systems can also be easily integrated into an existing hypervisor: Milestone, Hymatom, Genetec, Geutebruck...

MANAGEMENT OF CAME URBACO ACCESSES



OPEN
SYSTEM



HYPERVISOR



MILESTONE

HYMATOM

GENETEC

GEUTEBRUCK

SUPERVISOR SYGMA 4
CAME URBACO



PERIMETER SECURITY

To secure urban, industrial and commercial spaces, **CAME URBACO** offers a complementary range of retractable systems. On the periphery of the vehicular access control zones, fixed and removable bollards delimit the traffic lanes.

FIXED & REMOVABLE BOLLARDS

Fixed bollards are installed to protect areas where traffic is restricted, on the periphery of a controlled or prohibited access. Removable bollards limit access to authorized vehicles when the frequency of opening is low. They are ideal to complete an installation of retractable bollards while maintaining the same aesthetic.

G30 FIXED BOLLARD

ONE 30^{EVO} FIXED & REMOVABLE BOLLARD

ONE 40^{EVO} FIXED & REMOVABLE BOLLARD

ONE 50^{EVO} FIXED & REMOVABLE BOLLARD



OVERVIEW
FIXED BOLLARDS

FEATURES AND OPTIONS						REMOVABLE BOLLARD RANGE					
Model		MISTRAL		G30		ONE 30 ^{EVO}		ONE 40 ^{EVO}		ONE 50 ^{EVO}	
											
Resistance level											
ONE BOLLARD	Resistance to impact	-		2.5 T at 48 km/h		7.5 T at 48 km/h		7.5 T at 64 km/h		7.5 T at 80 km/h	
	Crash-tested IWA-14:2013	-		-		Based on the crash test of the retractable version		Based on the crash test of the retractable version		✓	
	Crash-tested PAS68	-		-		Based on the crash test of the retractable version		Based on the crash test of the retractable version		✓	
	PAS68:2013 Dynamic Simulation performed by an approved laboratory	✓		✓		-		-		-	
	Civil works depth	200 to 350 mm		350 mm		650 mm		650 mm		650 mm	
PER SET OF 3 BOLLARDS	Resistance to impact	-		-		7.5 T at 48 km/h		7.5 T at 64 km/h		-	
	PAS68:2013 Dynamic Simulation performed by an approved laboratory	-		-		✓		✓		-	
	Civil works depth	-		-		400 mm		400 mm		-	
CHARACTERISTICS	Material	Steel		High resistance steel		High resistance steel		High resistance steel		High resistance steel	
	Thickness	3 to 6 mm		12.5 mm		20 mm		36 mm		36 mm	
	Bollard diameter	76 to 250 mm		250 mm		250 mm		250 mm		325 mm	
	Bollard height	500 to 1200 mm		750 mm		1000 mm		1000 mm		1000 mm	
	Retro reflective band	✓		✓		✓		✓		✓	
	Interchangeable liner	-		✓		✓		✓		✓	
	PMR	-		✓		✓		✓		✓	
	Available in Retractable version	-		✓		✓		✓		✓	
	Available in Removable version	✓		-		✓		✓		✓	



FIXED BOLLARDS

G30

The G30 **fixed bollard** is the recommended solution to **delimit and prohibit an access**. It is recommended as a complement to retractable bollard access control to secure peripheral spaces while maintaining the same design. It enables to **make pedestrian access safe** by excluding vehicular traffic. It offers the impact resistance of a 2.5 ton pick-up truck traveling at 48 km/h*.



CHARACTERISTICS

Materials	Steel
Treatment	Hot-dip galvanizing (anti-corrosion)
Thickness	12.5 mm
Bollard diameter	250 mm
Bollard height	750 mm
Civil works depth	350 mm
Visual signaling	Retro-reflective band

* Dynamic simulation performed by an approved laboratory

ITS STRENGTHS

ACCESSORIES & OPTIONS

RAL color of your choice	included
Customization of the liner	optional
LED light ring	optional

- Definitely delimits and prohibits an access
- Resistant to a 2.5 T pick-up truck traveling at 48km/h*
- Compliant with the French PMR decree



Impact resistance of a **2.5T** pick-up truck traveling at **48 km/h***
> 238 kJ



ONE30^{EVO}

FIXED BOLLARDS



The ONE30^{EVO} fixed bollard is the recommended solution to delimit and prohibit a critical access. It is recommended as a complement to retractable bollard access control to secure peripheral spaces while maintaining the same design. It enables to make pedestrian access safe by excluding vehicular traffic. It offers the impact resistance of a 7.5 ton truck traveling at 48 km/h

CHARACTERISTICS	
Materials	Steel
Treatment	Hot-dip galvanizing (anti-corrosion)--
Thickness	20 mm
Bollard diameter	250 mm
Bollard height	1000 mm
Civil works depth	650 mm 400 mm (per set of 3)

ITS STRENGTHS



* Dynamic simulation performed by an approved laboratory

ACCESSORIES & OPTIONALS	
RAL color of your choice	optional
Customization of the liner	optional
LED light ring	optional



Impact resistance of a 7.5T truck traveling at 48 km/h*
> 681.2 kJ



FIXED BOLLARDS

ONE40^{EVO}



The ONE40^{EVO} fixed bollard is the recommended solution to delimit and prohibit a critical access. It is recommended as a complement to retractable bollard access control to secure peripheral spaces while maintaining the same design. It enables to make pedestrian access safe by excluding vehicular traffic. It offers the impact resistance of a 7.5 ton truck traveling at 64 km/h

CHARACTERISTICS	
Materials	Steel
Treatment	Hot-dip galvanizing (anti-corrosion)
Thickness	36 mm
Bollard diameter	250 mm
Bollard height	1000 mm
Civil works depth	650 mm 400 mm (per set of 3)

ITS STRENGTHS



* Dynamic simulation performed by an approved laboratory

ACCESSORIES & OPTIONALS	
RAL color of your choice	optional
Customization of the liner	optional
LED light ring	optional



Impact resistance of a 7.5T truck traveling at 64 km/h*
> 1,290 kJ



FIXED BOLLARDS

ONE50^{EVO}

The ONE50^{EVO} fixed bollard is the recommended solution to delimit and prohibit a critical access. It is recommended as a complement to retractable bollard access control to secure peripheral spaces while maintaining the same design. It enables to make pedestrian access safe by excluding vehicular traffic. It offers the impact resistance of a 7.5 ton truck traveling at 80 km/h



CHARACTERISTICS	
Materials	Steel
Treatment	Hot-dip galvanizing (anti-corrosion)
Thickness	36 mm
Bollard diameter	325 mm
Bollard height	1000 mm
Civil works depth	650 mm

ITS STRENGTHS

ACCESSORIES & OPTIONALS	
RAL color of your choice	optional
Customization of the liner	optional
LED light ring	optional

- Definitely delimits and prohibits an access
- Resistant to a 7.5 T truck traveling at 80 km/h
- Compliant with the French PMR decree



Impact resistance of a 7.5T truck traveling at 80 km/h
> 1,776 kJ





REMOVABLE BOLLARDS

ONE^{EVO}

The ONE^{EVO} **removable** bollard is a high security system developed to prohibit an access, while allowing its very occasional opening.

The removable system is an excellent solution to complete the closing of an access with one or more automatic bollards (the access can be fully open occasionally).

It allows for impact resistance against a 7.5 ton truck.



CHARACTERISTICS	
Materials	Steel
Treatment	Hot-dip galvanizing (anti-corrosion)
Thickness	20 mm 36 mm
Bollard diameter	250 mm 325 mm (ONE 50 ^{EVO} MODEL)
Bollard height	1000 mm
Civil works depth	750 mm

OPERATION

The access is opened by a truck crane which takes the bollard head out of the casing and moves it to the storage area. A rolling cover as well as an armored closing plate are installed in place of the bollard head to allow the circulation of vehicles safely.

ACCESSORIES & OPTIONS

RAL color of your choice	optional
Customization of the liner	optional
LED light ring	optional

ITS STRENGTHS

-  Very occasional closing/opening of an access
-  Closing plate
-  Resistant to a 7.5 T truck traveling from 48 to 80 km/h
-  Compliant with the French PMR decree



MISTRAL

REMOVABLE STEEL BOLLARDS AND POSTS

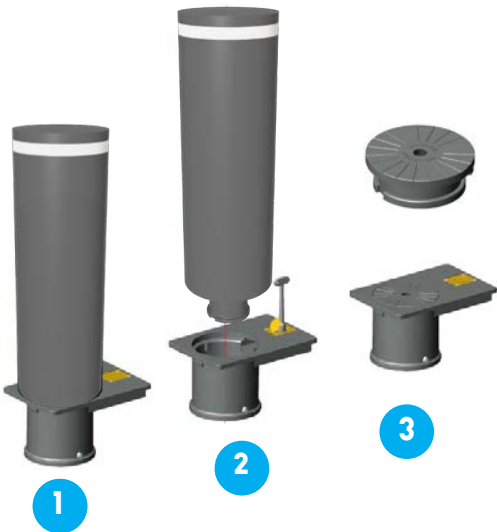
The [Mistral post or removable bollard](#) with a discreet and sober design is a cost-effective and simple solution to create a low-frequency access.

CHARACTERISTICS	
Materials	Steel
Treatment	Anti-corrosion protection with zinc-rich powder primer
Thickness	3 mm 6 mm
Diameter*	76 120 250
Height*	900 - 1200 500 - 550 - 750 - 950 - 1200 500 - 550 - 750

* Contact us for other dimensions

OPERATION

Combined with the Fixator® (Came Urbaco patent), the bollard can be removed without the need for tools: a simple wrench is all that is required. A locking system prevents unauthorized persons from opening the access. A turn of the wrench and the unlocked bollard can be removed from its housing. A cover put in place of the bollard allows to leave the passage free and the place clear.



FIXED STEEL BOLLARDS AND POSTS

MISTRAL

The [Mistral bollard and post](#) with its sober, neutral design and its completely smooth surface with a flat head, fits discreetly into any site, whatever the architectural and urban design requirements. Its strong points are the discretion and efficiency in delimiting the ways.

CHARACTERISTICS	
Materials	Steel
Treatment	Anti-corrosion protection with zinc-rich powder primer
Thickness	3 mm 6 mm
Diameter*	76 120 250
Height*	900 - 1200 500 - 550 - 750 - 950 - 1200 500 - 550 - 750

* Contact us for other dimensions

ACCESSORIES & OPTIONALS

Retro-reflective band optional

ITS STRENGTHS

-  Definitely delimits and prohibits an access
-  Ideal as a complement to the G6N (Ø250)
-  Sober design, compatible with removable bollards

Control your access with 3 steps:

1. Unlock
2. Turn
3. Remove

PERIMETER SECURITY

VENDÔME

REMOVABLE STAINLESS STEEL BOLLARDS AND POSTS

The Vendôme removable post has a polished stainless steel finish, ideal for modern sites with contemporary architecture. A simple and cost-effective solution to create a low-frequency access.



CHARACTERISTICS									
Materials	304 or 326L stainless steel								
Treatment	Polished								
Thickness	2 mm								
Diameter	76	89	104	114	139	154	204	254	
Height	500		750		1000		1200		

ITS STRENGTHS

- Occasional closing/opening of an access
- Streamlined design, compatible with the fixed version
- Simple manual operation

Control your access with 3 steps:

- 1 Unlock
- 2 Turn
- 3 Remove



FIXED STAINLESS STEEL BOLLARDS AND POSTS

The Vendôme fixed post has a polished stainless steel finish, ideal for modern sites with contemporary architecture. This solution integrates elegantly into the urban environment to delimit pedestrian areas.

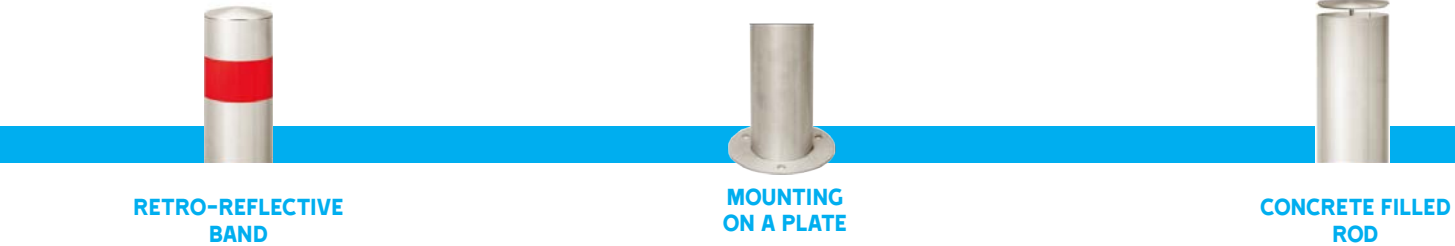


CHARACTERISTICS									
Materials	304 or 326L stainless steel								
Treatment	Polished								
Thickness	2 mm								
Diameter	76	89	104	114	139	154	204	254	
Height	500		750		1000		1200		

ITS STRENGTHS

- Definitely delimits and prohibits an access
- Streamlined design, compatible with removable bollards
- Various options to choose from

ACCESSORIES & OPTIONALS	
Domed head or flat head	to be chosen from
Retro-reflective band	optional
Mounting on a plate	optional
Reinforced: concrete filled rod	optional



PERIMETER SECURITY

OVERVIEW BOLLARD RANGE

RANGE

RESISTANCE LEVEL

AUTOMATIC
RETRACTABLE
BOLLARDS

REMOVABLE
BOLLARDS

FIXED
BOLLARDS

G6N



G6N



MISTRAL*



MISTRAL*

G30



ONE30^{EVO}



ONE40^{EVO}



ONE50^{EVO}



CUSTOMIZED PROJECT SUPPORT

Experts offer a complete support to answer the most complex requests. Each project is carefully studied to propose the most appropriate solution. According to the specificities required, the development department designs tailor-made equipment.

A customized offer adapted to each individual's needs:

- Team of experts working daily with architects and design offices
- Adaptability to all requests thanks to a unique service, both in terms of development and execution.
- Total project support with a turnkey service
- A new service model that offers a fast and professional solution in a rapidly changing international technological environment.



CAME URBACO KEY SKILLS



PROJECT MANAGEMENT

CAME URBACO is specialized in the design and management of building projects and urban areas.

The "project" unit offers solutions adapted to all needs, even the most complex, in areas such as:

- Access control and security
- Management of traffic flows

Support during all phases of the project:

- Technical support and consulting services
- Project design
- Initial operation
- Installation

TO GUIDE YOU
PROJECT FEASIBILITY STUDY



Document writer: Date:

In the presence of:

Table with 3 columns: Name and Surname, Company or City, Contact details (e-mail, telephone number, etc.)

Part1 : PROJECT BACKGROUND

Project name (project customer name):

CAME URBACO customer:

Final Customer:

Call for Tenders:

No Yes, AO detail:

User's budget (if communicated by the customer):

Confidence level (% success rate):

Decisive criterion:

Deadline Price Technical solution Maintenance

Start date of work:

Desired completion time:

Site:

- New installation Replacement of an existing installation Updating of an existing installation (revenping)
- Extension of a CAME URBACO installation Extension of a competitor's installation
- Competitor's name:

Site name:

Number of accesses on this site:

Service to be provided by CAME URBACO:

- Civil Engineering Fitting Connection Initial operation System Configuration Training
- Customer hardware integration Technical audit

Need:

- Installation on: Private site Public area
- Purpose of access control: Management of limited traffic in the area Protection of people or areas

PROJECT FEASIBILITY STUDY

Part 2 : OPERATION DESIRED BY THE USER

1/ Direction of travel:

Diagram showing travel directions: 1 way 1 direction, 1 way 2 directions, 2 ways 2 parallel directions, 2 ways 2 opposite directions, Other specify. Includes checkboxes for EOSC, ECSC, EC, SC, EA, SA, ECSCA, ECSCSA.

2/ Distance between bollards and controller:

3/ Frequency of use per 24h:

- < 50 cycles > 50 cycles Intensive use

4/ Security device:

- Magnetic loops Bollard position lights Other detection methods:

5/ Bollard operation:

- Remote hydraulic On-board hydraulic Pneumatic

Preferred operation:

Positive safety: in case of power failure, the bollard descends by gravity
Negative safety: in case of power failure, the bollard remains in its position or the position it was in before the power failure

- Positive security Negative security Negative security with manual release

6/ Preferred access control:

- Manual Remote control Badge reader
- Portable Key Digicode Visual / vocal intercom
- License plate reader Other

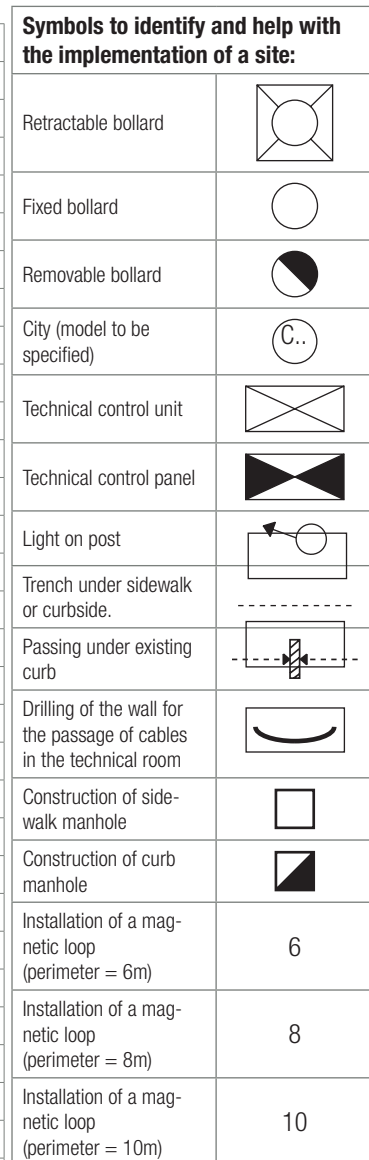
7/ Centralization Project:

- No Yes Subsequently Immediately Existing GTC (manufacturer:)

8/ Interface:

- Fiber optics RJ45 If fiber optics, type of connector:
Star Ring Other: SC ST Other:
GSM ADSL/VDSL

Comments/Notes:



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REFERENCE CAME URBACO



RETRACTABLE BOLLARDS & FIXED BOLLARDS

G30

HIGH SECURITY

CITY 6^{EVO}

ACCESS CONTROL, GTC

LE TOUQUET, FRANCE

Major player in the retractable bollard and centralized technical control market, **for more than 30 years**, CAME URBACO has seen its solutions deployed [throughout the world](#).

Vehicle access control and security systems for sensitive sites are present [in both small communities and larger areas](#).

TAKE A LOOK AT OUR LATEST PROJECTS



RETRACTABLE, SEMI-AUTOMATIC & FIXED BOLLARDS

ONE^{EVO} & G6^{EVO}

HIGH SECURITY

CITY 6^{EVO}

ACCESS CONTROL, GTC

AIX EN PROVENCE, FRANCE

RETRACTABLE, REMOVABLE & FIXED BOLLARDS

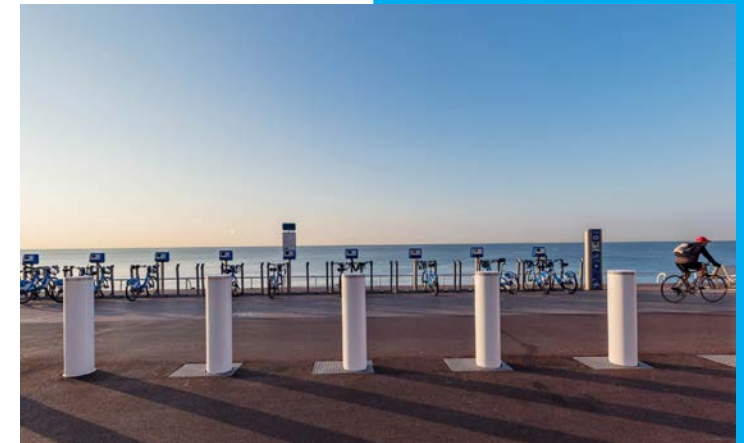
ONE40^{EVO}

HIGH SECURITY

CITY 6^{EVO}

ACCESS CONTROL

NICE, FRANCE



RETRACTABLE & FIXED BOLLARDS

ONE40^{EVO} & ONE50^{EVO}

HIGH SECURITY

CITY 6^{EVO}

ACCESS CONTROL

CANNES, FRANCE

RETRACTABLE BOLLARDS

G6^{EVO}

CITY 6^{EVO} & CITY 1

SYGMA 3

ACCESS CONTROL, GTC

AMIENS, FRANCE





**RETRACTABLE,
DRILL & FIXED BOLLARDS**
ONE 50 EVO
 HIGH SECURITY
CITY 6^{EVO}
 ACCESS CONTROL

PARIS, FRANCE

**RETRACTABLE
& FIXED BOLLARDS**
G6^{EVO}
Control Box
 ACCESS CONTROL

SBM MONTE CARLO, MONACO



**RETRACTABLE
& FIXED BOLLARDS**
Reinforced G6^{EVO}
 SAFETY

ROME, ITALY

RETRACTABLE BOLLARDS
G6^{EVO}
CITY 6^{EVO}
SYGMA 4
 ACCESS CONTROL
MEGÈVE, FRANCE



FIXED RETRACTABLE BOLLARDS
G6^{EVO}

ACCESS CONTROL
TROLLHÄTTAN, SWEDEN

**RETRACTABLE
& FIXED BOLLARDS**
G6^{EVO}
CITY 6^{EVO} & CITY 1
SYGMA 3

ACCESS CONTROL, GTC
VIENNA, AUSTRIA





**BE TECHNOLOGY.
STAY HUMAN.**

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Brescia, ITALY

CAME KMS
Buckinghamshire, UK

CAME NEPOS
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