VEHICLE ACCESS CONTROL TERTIARY, INDUSTRIAL & URBAN

VEHICLE

ACCESS CONTROL

SAFETY

RETRACTABLE BOLLARDS
CRASH TESTS

SUPERVISION

CENTRALIZED
TECHNICAL CONTROL

CAME URBACO

CAME.COM/URBACO


LE LOUIS

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 PARKARE

CAME URBACO

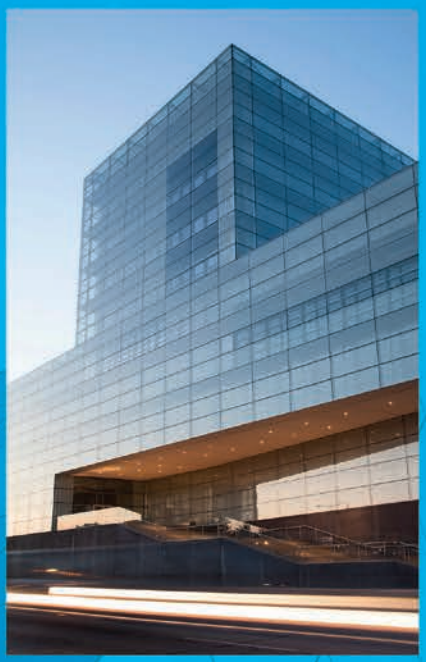
CAME GO

CAME BTECH

CAME ÖZAK

RESIDENTIAL SOLUTIONS

BUSINESS SOLUTIONS



URBAN 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.

THE CAME GROUP OFFER

AUTOMATION SYSTEMS

· Gate automation systems
· Garage door automation systems
· Industrial locking automation systems

AUTOMATIC BARRIERS

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

PARKING SYSTEMS

· Off-street solutions
· On-street solutions

BOLLARDS AND ROAD BLOCKERS (RETRACTABLE BOLLARDS)

· Traffic control bollards
· High security bollards and road blockers

TURNSTILES AND SPEED GATES

· Turnstiles
· Speed gates
· Access control software

CAME

AUTOMATIC DOORS

· Sliding and swinging doors

VIDEO INTERCOM SYSTEMS

· Video intercom systems
· Intercom systems

HOME CONTROL SOLUTIONS

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

SOLUTIONS FOR BLINDS AND SHUTTERS

· Automatic blinds and shutters
· Rolling shutter automation systems

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

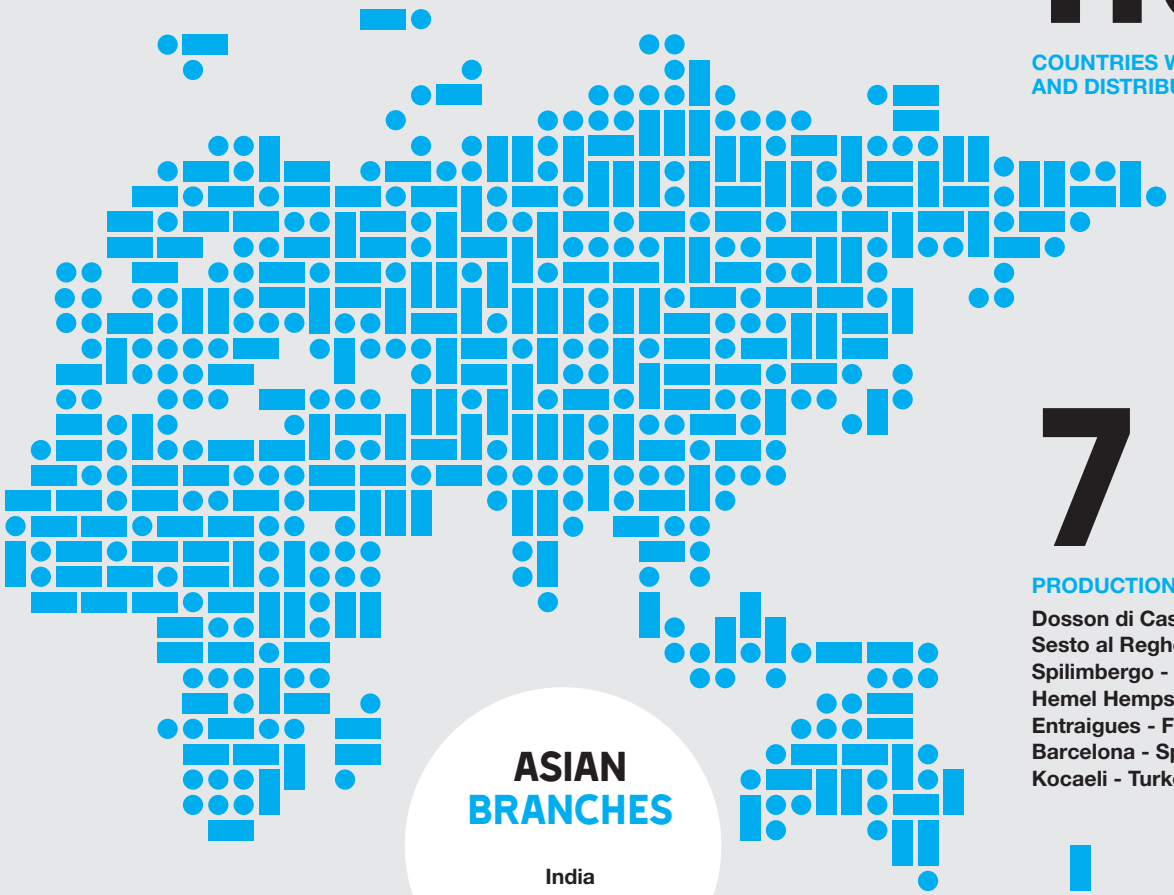
EMPLOYEES AROUND THE WORLD

CAME

CAME HQ
Treviso, Italy

EUROPEAN BRANCHES

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



ASIAN BRANCHES

India
United Arab Emirates

6
R&D CENTERS

21
COUNTRIES WITH DIRECT BRANCHES

118
COUNTRIES WITH PARTNERS AND DISTRIBUTORS

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

ACCESS MANAGEMENT SOLUTIONS:

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

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

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.

MANAGEMENT SYSTEM:

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

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^{EVO}, retractable and fixed bollards, Totem City 6^{EVO}

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 drilling action

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RESISTANCE OF CAME URBACO BOLLARDS CERTIFICATES

Type	Model	Test method	Results	Standard	kJ
RETRACTABLE 	G6N 550	**Dynamic simulation** performed by an approved laboratory	**STOPS A VEHICLE OF** **1,5 T** traveling at 48 km/h	IWA 14-1:2013* V/1500[M1]/48/90	133*
	G6N 750	**Dynamic simulation** performed by an approved laboratory	**STOPS A VEHICLE OF** **2,5 T** traveling at 48 km/h	IWA 14-1:2013* V/2500[N1G]/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 traveling 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

** in accordance with the cited standard*

SAFETY
CERTIFICATIONS & INTERPRETATIONS

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 (°)

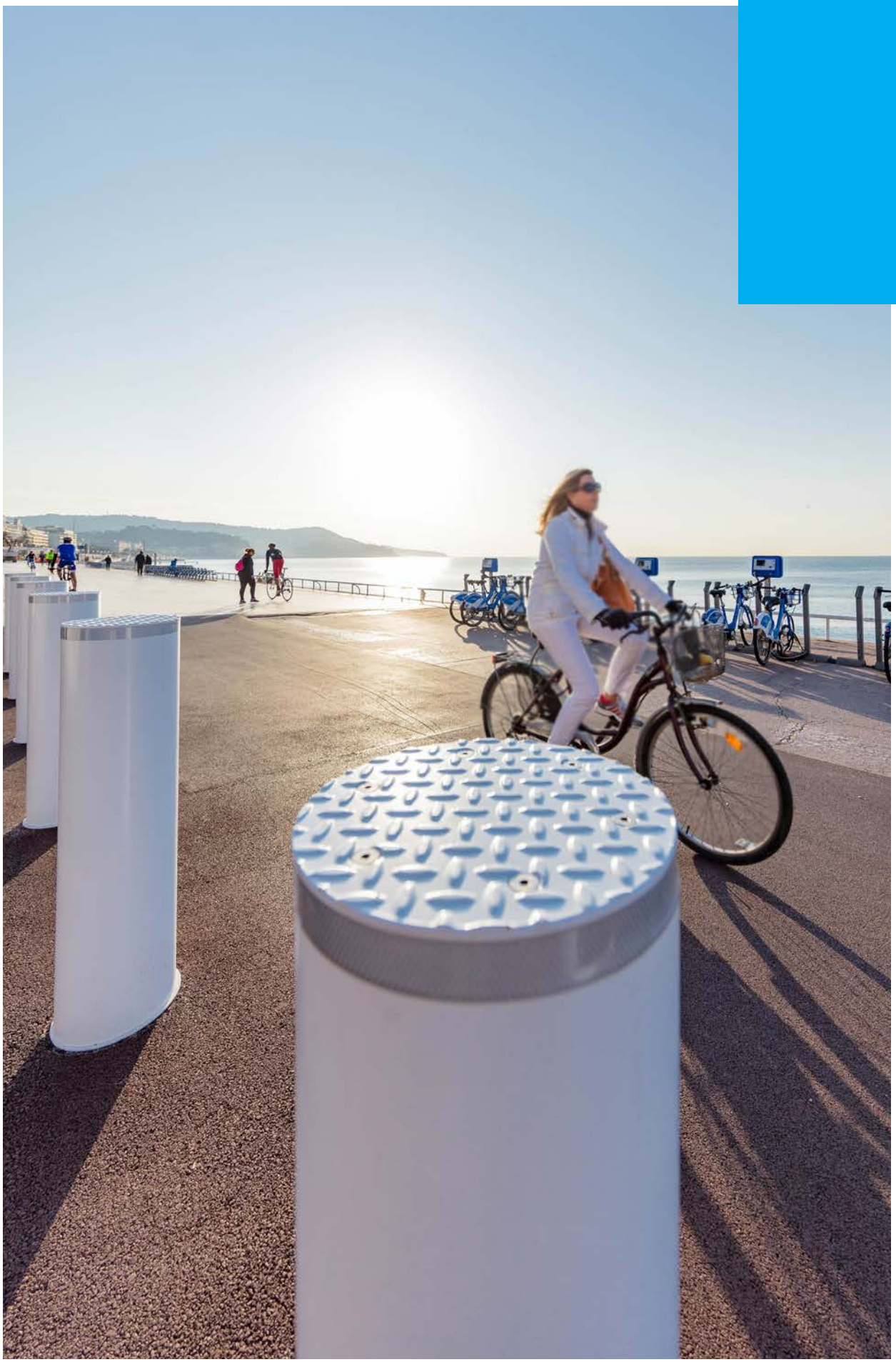
4,2 = VEHICLE PENETRATION (METERS)

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:

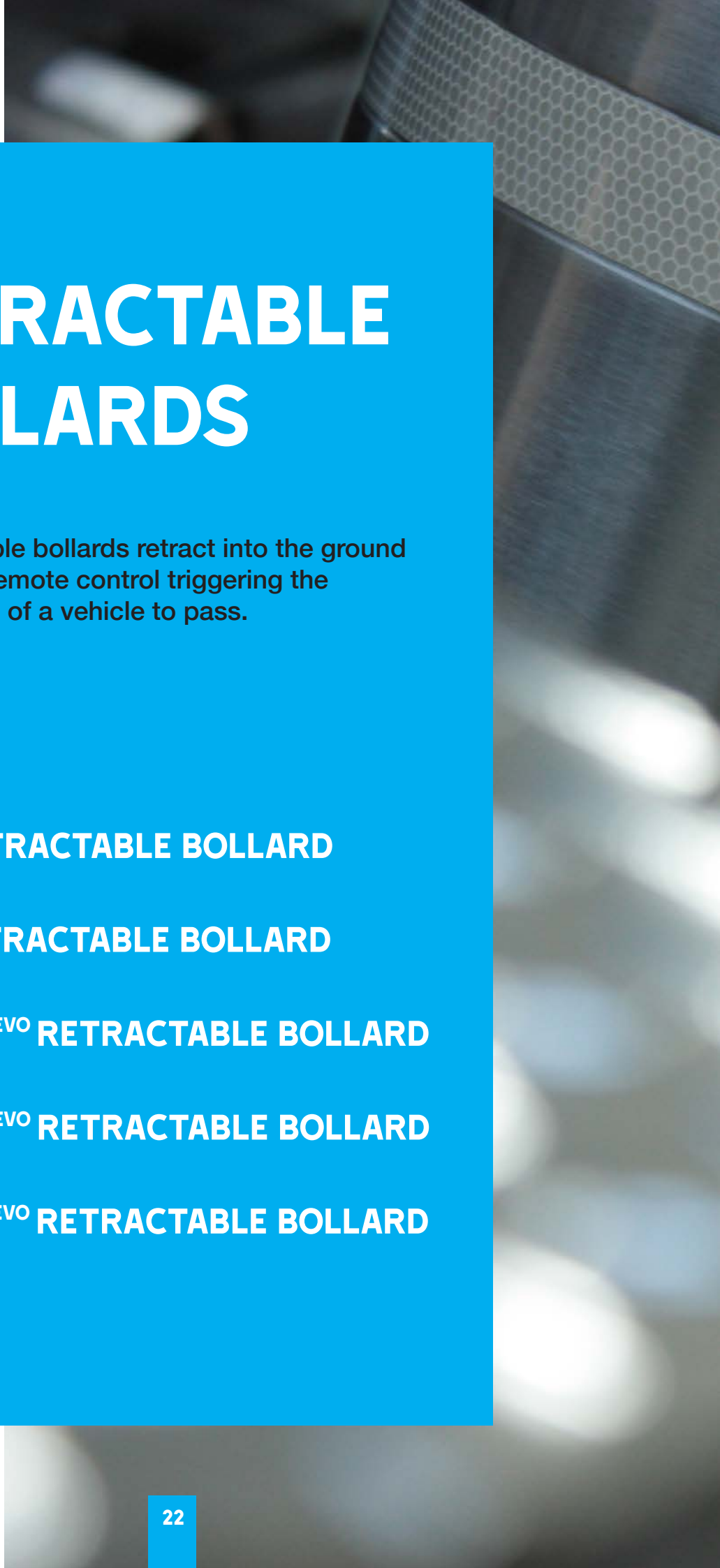
- Post-impact penetration: must not exceed a dozen meters
- Post-impact access safety: the ONE^{EVO} bollards always ensure safe access after impact
- Data of the crash test methods: CAME URBACO has certified its bollards with the latest international standards
- The certifying laboratories: the selected 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.

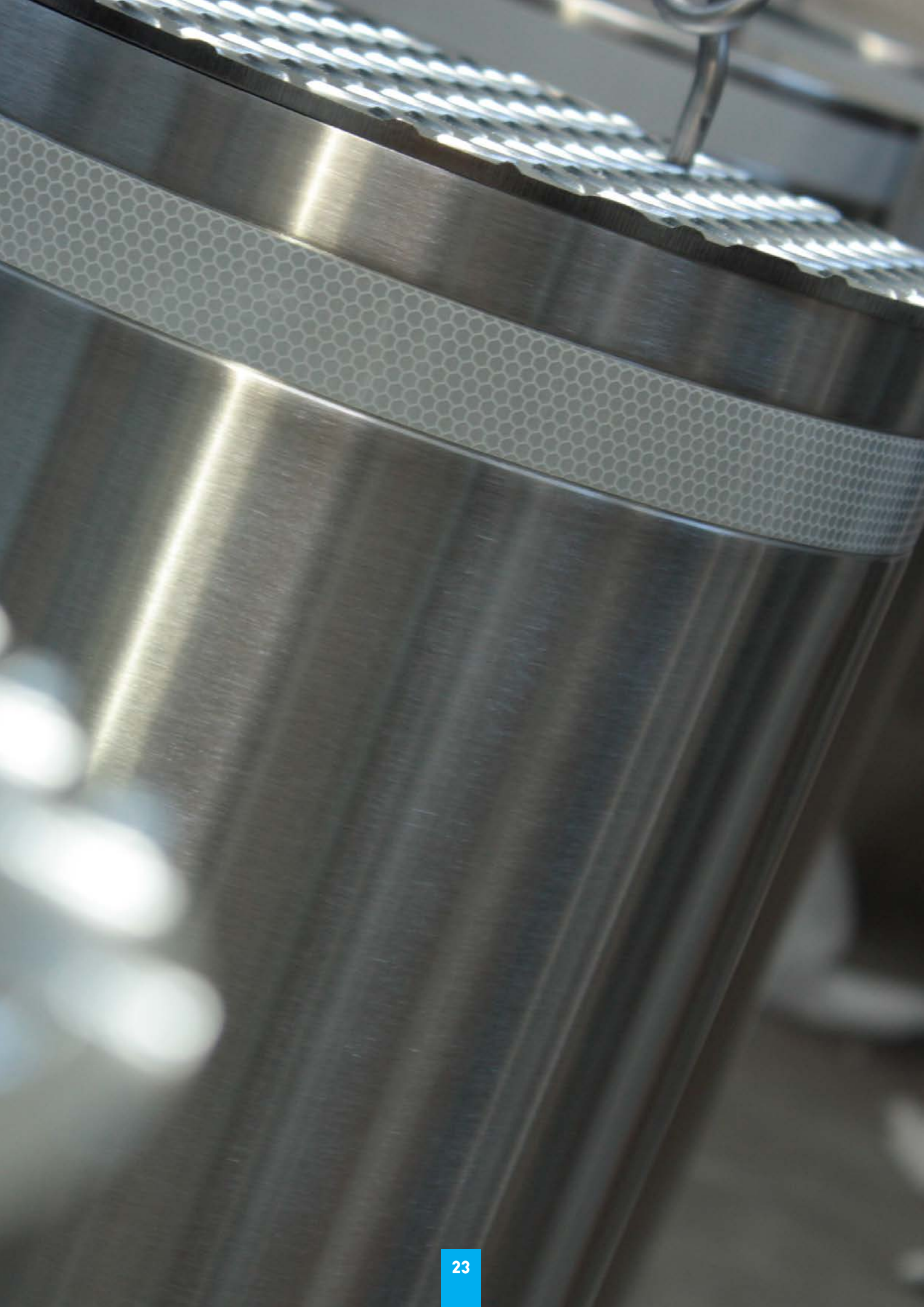
G6N RETRACTABLE BOLLARD

G30 RETRACTABLE BOLLARD

ONE 30 EVO RETRACTABLE BOLLARD

ONE 40 EVO RETRACTABLE BOLLARD

ONE 50 EVO RETRACTABLE BOLLARD



FEATURES AND OPTIONS

Model	G6N (H550mm) 	G6N (H750mm) 
Resistance level		
Resistance to impact	**1.5** T at 48 km/h	**2.5** T at 48 km/h (set of 2 bollards)
Crash-tested IWA-14:2013	**Dynamic simulation**	**Dynamic simulation**
Crash-tested PAS68	**Dynamic simulation**	**Dynamic simulation**
On-board hydraulic drive	✓	✓
Remote hydraulic drive	✓	✓
Pneumatic drive	✓	✓
Material	Casting	Casting
Thickness	11 mm	11 mm
Bollard diameter	250 mm	250 mm
Bollard height	550 mm	750 mm
Depth of civil works (excluding drain)	930 mm	1130 mm
Voltage (depending on the version)	24 V - 230V	24 V - 230V
Extraction time	5 to 7 seconds	5 to 7 seconds
Retraction time	5 seconds	5 seconds
Retro reflective band	✓	✓
LED light ring	✓	✓
Interchangeable sleeve	✓	✓
EFO option (emergency lift in 1.5 sec.)	-	-
Optional Battery	-	-
Optional Drill	✓	✓
IP67	✓	✓
PMR	✓	✓
ISO EN 124	E600	E600
Available in Fixed version	-	-
Available in Removable version	-	-
Available in Semi-automatic version	✓	✓

OVERVIEW
AUTOMATIC RETRACTABLE BOLLARDS

RETRACTABLE BOLLARD RANGE

G30	ONE 30EVO	ONE 40EVO	ONE 50EVO
			
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
✓	✓	✓	✓
✓	✓	✓	✓
✓	✓	✓	✓
✓	✓	✓	✓
-	-	-	-
High resistance steel	High resistance steel	High resistance steel	High resistance steel
12.5 mm	20 mm	36 mm	36 mm
250 mm	250 mm	250 mm	325 mm
750 mm	1000 mm	1000 mm	1000 mm
1095 mm	1965 mm	1965 mm	1965 mm
24 V - 230V	24 V - 400V	24 V - 400V	24 V - 400V
5 to 6 seconds	5 to 7 seconds	5 to 7 seconds	5 to 7 seconds
3 to 4 seconds	3 to 5 seconds	3 to 5 seconds	3 to 5 seconds
✓	✓	✓	✓
✓	✓	✓	✓
✓	✓	✓	✓
-	✓	✓	✓
-	✓	✓	✓
✓	✓	✓	✓
✓	✓	✓	✓
✓	✓	✓	✓
E600	F900	F900	F900
✓	✓	✓	✓
-	✓	✓	✓
-	-	-	-

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
	H	H.E	P
Standard power consumption (kW)	0.55 I 1.1 I 1.5	0.33 I 2.2	0.54 I 0.92 I 1.42
Standard working pressure (bar)	50 I 50 I 70/90/110*	55 I 70/90/110*	5.5 to 7
Supply voltage (V)	230V I 230V I 400V	230 V I 400 V	230 V
Standard pump flow rate (L/min)	5.4 I 8.8 I 9	4 I 9	60 I 105 I 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 I ONE 40 EVO I 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 BOLALRD 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 HEAVY-DUTY 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^{EVO} 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 I 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 sleeve, 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 sleeves. It can be easily replaced if it becomes worn over time.


Cartier
L'HERMITAGE

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
Sleeve materials	Stainless steel 304 L I Stainless steel 316 L
Thickness	11 mm
Bollard diameter	250 mm
Bollard height	550 mm I 750 mm
Depth of civil works (excluding drain)	930 mm I 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

* Dynamic simulation performed by an approved laboratory

MONOBLOC® CONCEPT

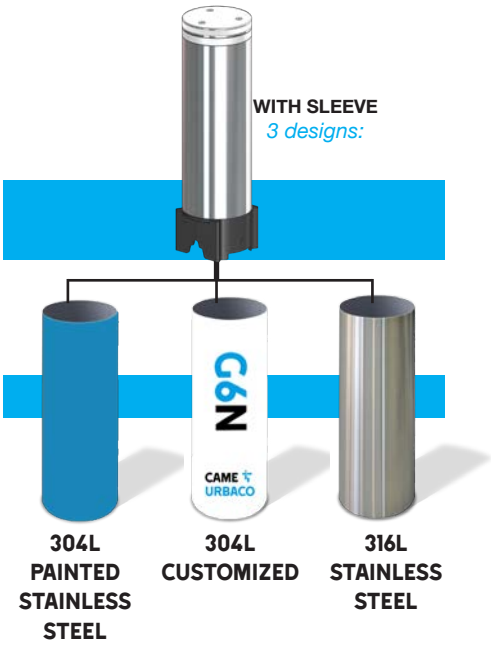
Raw head, casing and cover made of cast iron, with an average thickness of 11mm, each cast in one piece, without welds or wear parts.

INTERCHANGEABLE SLEEVE CONCEPT

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

10-YEAR WARRANTY**

10-year warranty on cast-iron bollard head, casing and cover**.



COMPATIBILITY AND OPTIONS

DESIGN & SIGNALING
- RAL to choose from I Stainless steel
- 316L or customized sleeve
- 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

** See the "Warranty" chapter in our General Terms of Sale

AUTOMATIC RETRACTABLE BOLLARDS G6N

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 sleeves, 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

H H.E P

ITS STRENGTHS

- **10-year warranty****
- **Customized interchangeable sleeve**
- **Fast and economical maintenance**
- **Resistance to impact : from a 1.5 T at 48km/h to a 2.5 T at 48km/h (set of 2)**
- **A new and improved version**
- **ISO EN 124 – E600**
- **A time-tested bollard that has proven its worth**

** See the “Warranty” chapter in our General Terms of Sale

AVAILABLE IN

SEMI-AUTOMATIC

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 SLEEVE 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 sleeve
Stainless steel 304L sleeve painted RAL of your choice Stainless steel 316L sleeve
+ Retro reflective band
+ Light ring

OPTIONS

Remote hydraulic unit
On-board hydraulic unit
Heater
Heated cable and connector
Negative security (depending on drive)

DRIVE

External hydraulic
Built-in hydraulic

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

H

H.E

FUNCTIONAL OPTION

DRILL

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 sleeve**
- **Interchangeable sleeve 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 SLEEVE 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 sleeve
Stainless steel 304L sleeve painted RAL of your choice Stainless steel 316L sleeve
+ Retro reflective band
+ Light ring

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)

DRIVE

External hydraulic
Built-in hydraulic

ACCESS CONTROL SOLUTION

Automation system
Function logic
Safety loops
Equipment: Control boxes/ Panels / Totems

AUTOMATIC RETRACTABLE BOLLARDS

ONE30EVO

The **ONE30EVO** 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

AVAILABLE IN

REMOVABLE

FIXED VERSION

- 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 sleeve
- ISO EN 124 - Class F900 (up to 90T)
- EFO option: emergency lift in 1.5 sec.

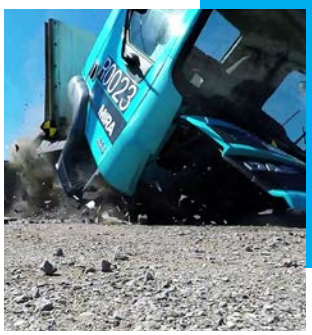
Impact resistance of a 7.5T truck traveling at 64 km/h > 1.290 kJ

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 SLEEVE 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 sleeve
Stainless steel 304L sleeve painted RAL of your choice Stainless steel 316L sleeve
+ Retro reflective band
+ Light ring

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)

DRIVE

External hydraulic
Built-in hydraulic

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

AVAILABLE IN

REMOVABLE

FIXED VERSION

- 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 sleeve
- ISO EN 124 - Class F900 (up to 90T)
- EFO option: emergency lift in 1.5 sec.

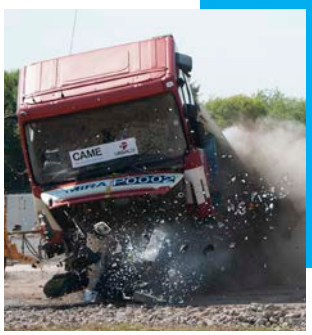
Resistance to the impact of two consecutive 7.5T trucks traveling at 80 km/h
> 1 776 kJ : 1st crash-test / 1765 kJ : 2nd crash-test

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 SLEEVE 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 sleeve
Stainless steel 304L sleeve painted RAL of your choice Stainless steel 316L sleeve
+ Retro reflective band
+ Light ring

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)

DRIVE

External hydraulic
Built-in hydraulic

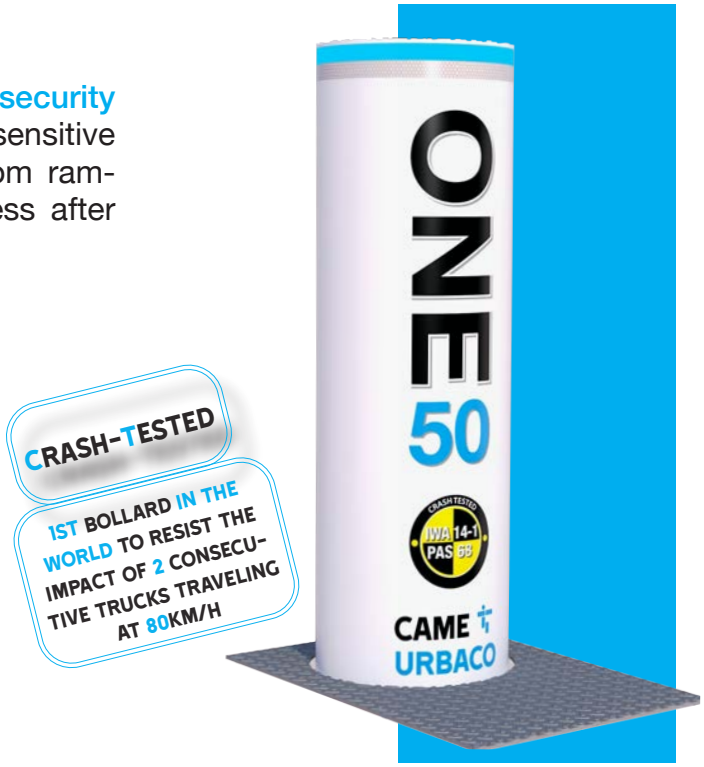
ACCESS CONTROL SOLUTION

Automation system
Function logic
Safety loops
Equipment: Control boxes/ Panels / Totems

AUTOMATIC RETRACTABLE BOLLARDS

ONE50EVO

The **ONE50EVO** retractable bollard, high security device, is designed to control access to sensitive sites and protect strategic access point from ram-vehicle attacks. It always ensures safe access after two consecutive impacts.



AVAILABLE DRIVES

H

H.E

FUNCTIONAL OPTIONS

EFO	ACC	DRILL
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 sleeve
- ISO EN 124 - Class F900 (up to 90T)
- EFO option :emergency lift in 1.5 sec.

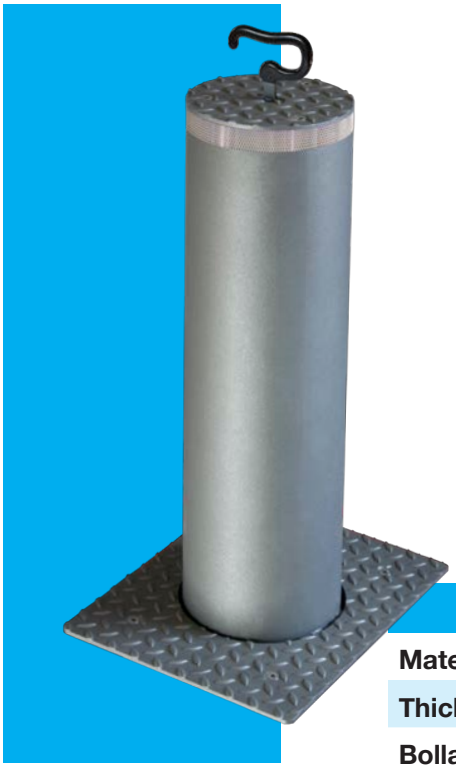
AVAILABLE IN

REMOVABLE

FIXED VERSION

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

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

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

SEMI-AUTOMATIC RETRACTABLE BOLLARDS

BEM G6N

The **removable** **semi-automatic** 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 I 750 mm
Depth of civil works (excluding drain)	930 mm I 1130 mm
Imprint	T11 (specific optional features)

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

ITS STRENGTHS

- **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


STOP

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

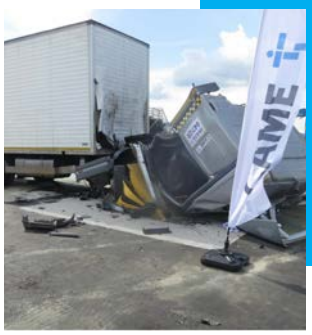
CHARACTERISTICS	
Materials	High resistance steel
Structure treatment	Hot-dip galvanizing (anti-corrosion)
Obstacle width (mm)	1000 I 1500 I 2000 I 2500 I 3000 I 3500 4000 I 4500 I 5000 I 5500 I 6000 I 6500
Obstacle height	900 mm
Civil works depth	400 mm
Retraction time	3 to 5 seconds
IP68	Dust-tight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

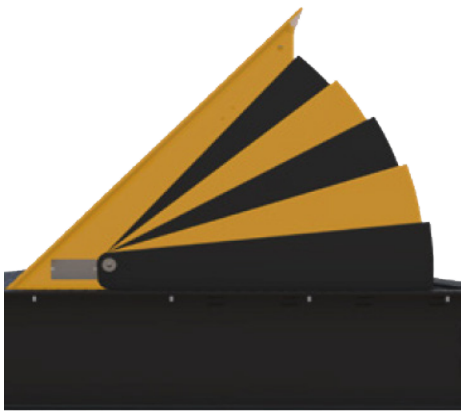
CRASH TEST

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

HRB SHLW

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.

AVAILABLE DRIVES

H

FUNCTIONAL OPTIONS

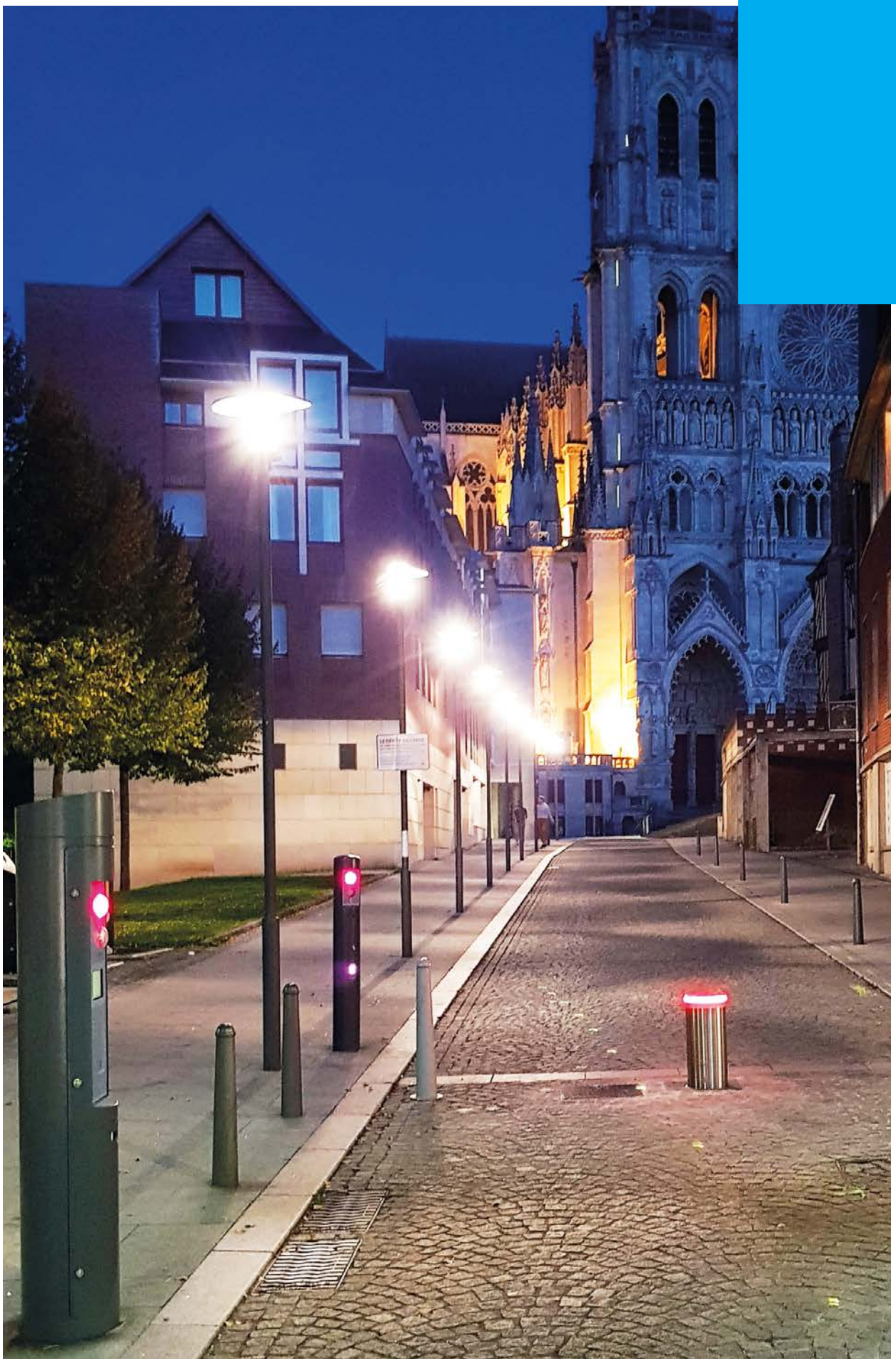
EFO

ACC

ITS STRENGTHS

- 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

CONTACT US FOR OTHER VERSIONS



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 TOTEMS

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 6EVO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CIRCULATION
REGLEMENTEE
PAR ARRETE MUNICIPAL
INTERPHONE

FEATURES AND OPTIONS OF CONTROL EQUIP

Key

- ✓ COMPATIBLE
- ✓ COMPATIBLE WITH YOUR CHOICE (LIMITED SPACE)
- ✗ NOT COMPATIBLE

	Model	CONTROL BOX	CONTROL PANEL
			
Capacity level			
Material (standard)		Steel	Aluminum
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		✗	✗

OVERVIEW OF CONTROL EQUIPMENT AND TOTEMS

MENT AND TOTEMS

CITY 1	CITY 2N	CITY 6^{EVO}
		
Steel	Steel	Steel
✓	✓	✓
✗	✓	✓
✗	✗	✓
✗	✗	✓
✓	✓	✓
✗	✗	✓
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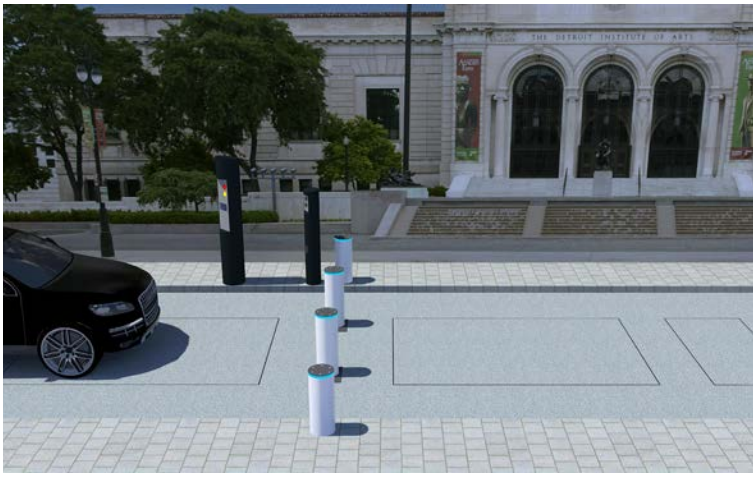
✗	✗	✓

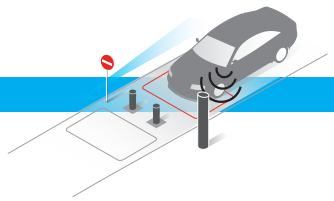
CONTROLLED ACCESS PARTS

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.

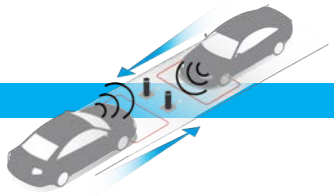


SEVERAL OPERATING LOGICS ARE PROPOSED:

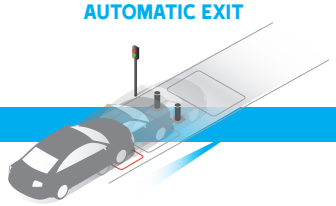
CONTROLLED ENTRY OR EXIT



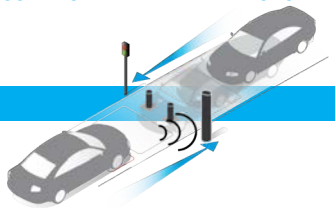
CONTROLLED ENTRY AND EXIT



AUTOMATIC EXIT



CONTROLLED ENTRY AND AUTOMATIC EXIT



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 I 600x600x250 I 800X600X250 I 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 & OPTIONALS	
Wall mounting (brackets)	included
30M³ fan	included
Polyester coating	optional

EQUIPMENT
TECHNICAL CONTROL UNIT

CONTROL PANEL

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 I 1100x1000x650 1516X800X500 I 1516X1200X800 I 1966x1200x1100
Mounting	Ground anchoring
Protection class	IP54
Locking	Key operated lock
Colors (depending on model)	RAL 1015 I RAL 7016
Compatible drives	Remote hydraulic On-board hydraulic Pneumatic

ITS STRENGTHS

ACCESSORIES & OPTIONALS	
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

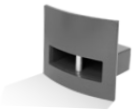
ADDITIONAL OPTIONALS

EMERGENCY STOP BUTTON

Push button

BOLT CUTTER

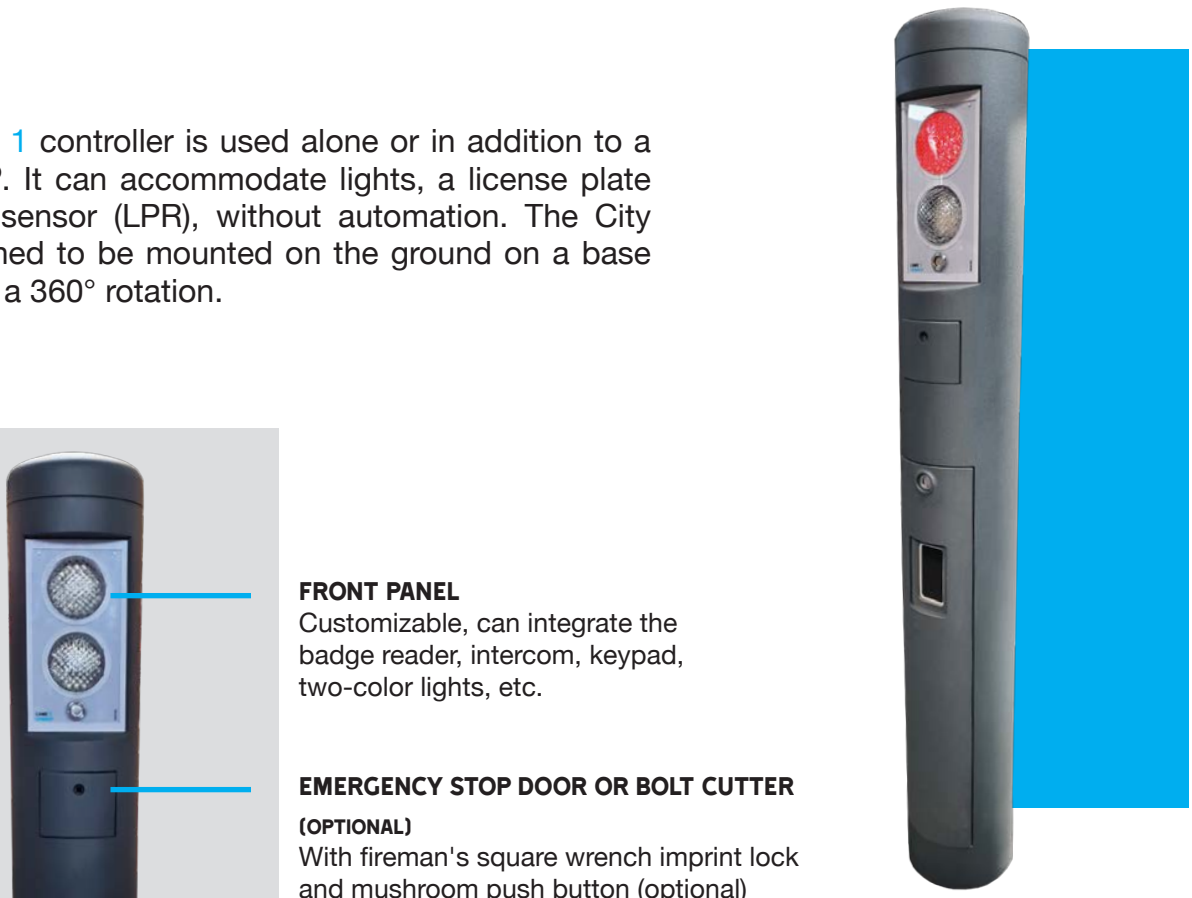
Emergency stop (with clamp)



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.



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

ITS STRENGTHS

- **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

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 OPTIONALS

ADDITIONAL MODULES
Single and double sided different sizes

BOLT CUTTER
Emergency stop (with clamp)

TICKET PRINTER
With collection tray

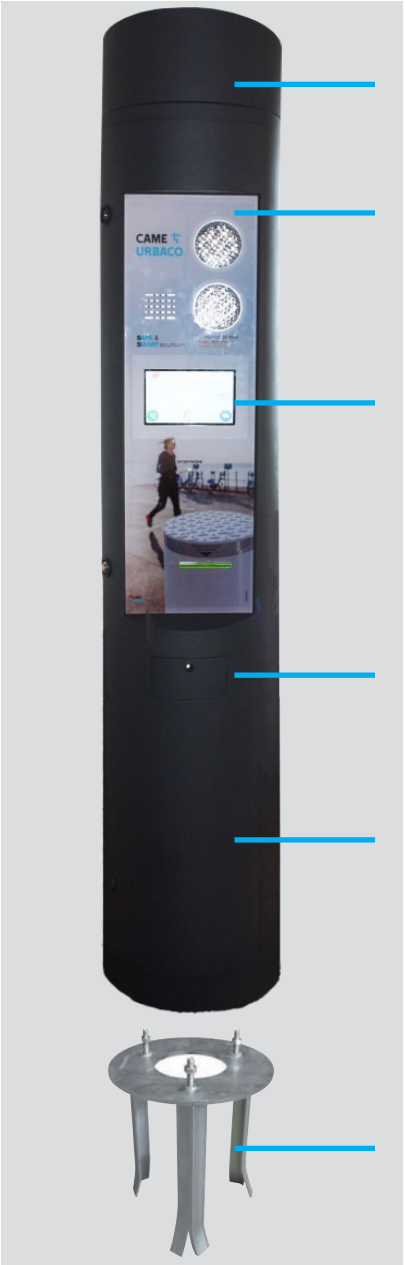
ADDITIONAL MODULES

360° swiveling to enhance signage and ease of access

MANAGEMENT
CONTROLLER TOTEM

CITY 6 EVO

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

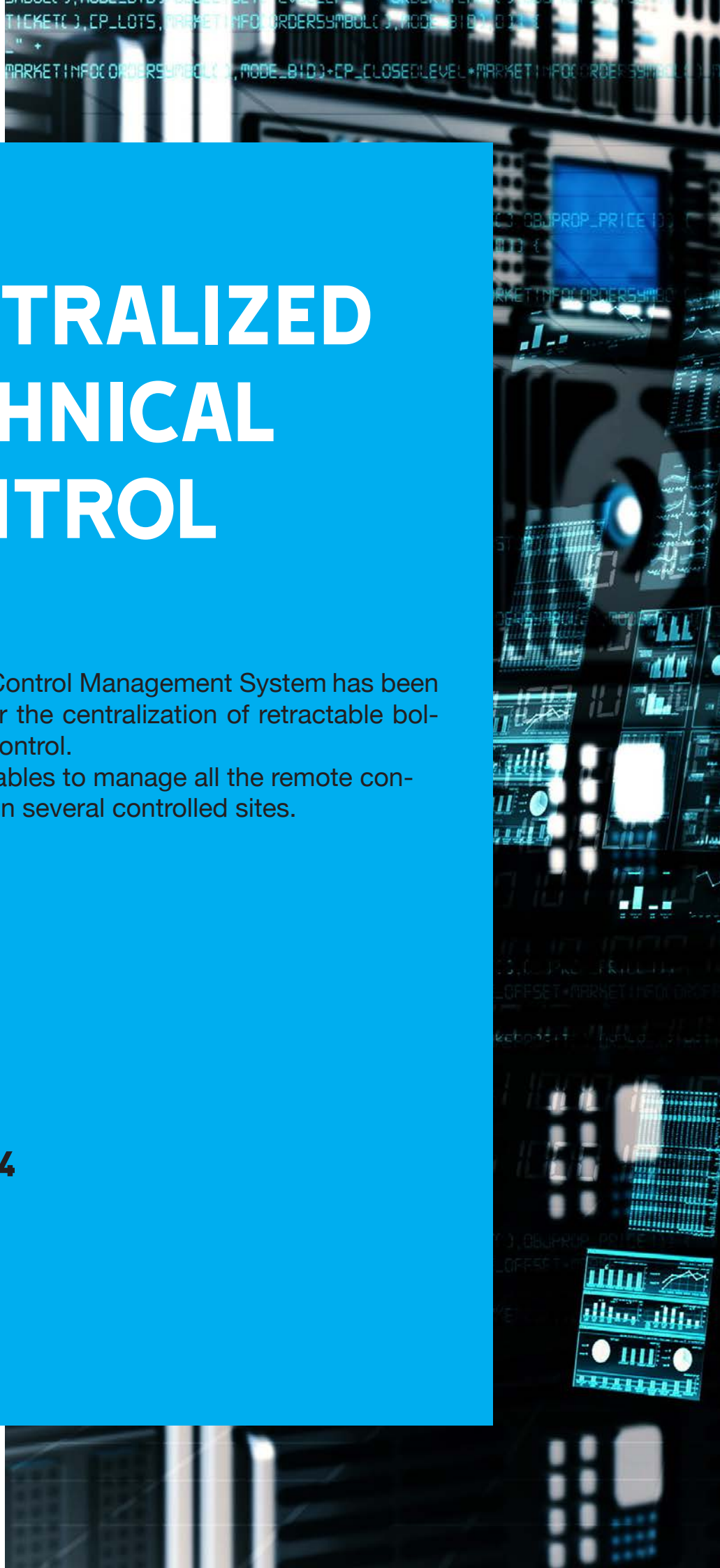
ITS STRENGTHS

- 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

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.)

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.

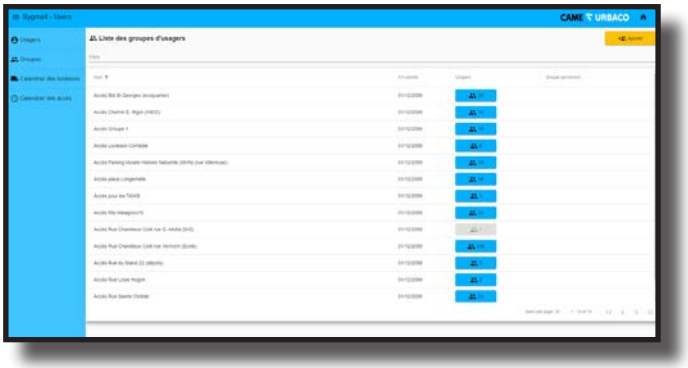
Bollard, PLC, loops, compressor, lights, emergency mushroom button, clock, reader, connections...
Event, alarm and fault logging system

Real-time statistics

Condition graphs: transits and anomalies

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.



ITS STRENGTHS

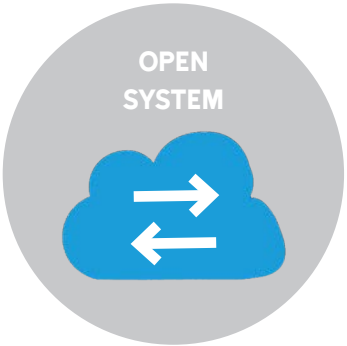
- A web-based monitoring solution
- Traceability and information feedback
- Accessible anywhere at any time
- Can be integrated into hypervision systems
- Compatible with open protocols

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



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

		FEATURES AND
	Model	MISTRAL
		
	Resistance level	
ONE BOLLARD	Resistance to impact	-
	Crash-tested IWA-14:2013	-
	Crash-tested PAS68	-
	PAS68:2013 Dynamic Simulation performed by an approved laboratory	-
	Civil works depth	200 to 350 mm
PER SET OF 3 BOLLARDS	Resistance to impact	-
	PAS68:2013 Dynamic Simulation performed by an approved laboratory	-
	Civil works depth	-
CHARACTERISTICS	Material	Steel
	Thickness	3 to 6 mm
	Bollard diameter	76 to 250 mm
	Bollard height	500 to 1200 mm
	Retro reflective band	✓
	Interchangeable sleeve	-
	PMR	-
	Available in Retractable version	-
	Available in Removable version	✓

OVERVIEW
FIXED BOLLARDS

OPTIONS REMOVABLE BOLLARD RANGE

G30	ONE 30^{EVO}	ONE 40^{EVO}	ONE 50^{EVO}
			
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
-	Based on the crash test of the retractable version	Based on the crash test of the retractable version	✓
-	Based on the crash test of the retractable version	Based on the crash test of the retractable version	✓
✓	-	-	-
350 mm	650 mm	650 mm	650 mm
-	**7.5** T at 48 km/h	**7.5** T at 64 km/h	-
-	✓	✓	-
-	400 mm	400 mm	-
High resistance steel	High resistance steel	High resistance steel	High resistance steel
12.5 mm	20 mm	36 mm	36 mm
250 mm	250 mm	250 mm	325 mm
750 mm	1000 mm	1000 mm	1000 mm
✓	✓	✓	✓
✓	✓	✓	✓
✓	✓	✓	✓
✓	✓	✓	✓
-	✓	✓	✓


CENTRE DE VACCINATION
Le Minotaure

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 & OPTIONALS	
RAL color of your choice	included
Customization of the sleeve	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 ONE30EVO 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 I 400 mm (per set of 3)

ITS STRENGTHS

PER SET OF 3 BOLLARDS* :
LOW EMBEDDING DEPTH RESISTANCE MAINTAINED

* Dynamic simulation performed by an approved laboratory

- **Definitely delimits and prohibits an access**
- **Resistant to a 7.5 T truck traveling at 48 km/h***
- **Compliant with the French PMR decree**

ACCESSORIES & OPTIONALS	
RAL color of your choice	optional
Customization of the sleeve	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 I 400 mm (per set of 3)

PER SET OF 3 BOLLARDS* :
LOW EMBEDDING DEPTH
RESISTANCE MAINTAINED

* Dynamic simulation performed by an approved laboratory

ITS STRENGTHS

- **Definitely delimits and prohibits an access**
- **Resistant to a 7.5 T truck traveling at 64 km/h**
- **Compliant with the French PMR decree**

ACCESSORIES & OPTIONALS	
RAL color of your choice	optional
Customization of the sleeve	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 ONE50EVO 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

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

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

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 I 36 mm
Bollard diameter	250 mm I 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 & OPTIONALS	
RAL color of your choice	optional
Customization of the sleeve	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**

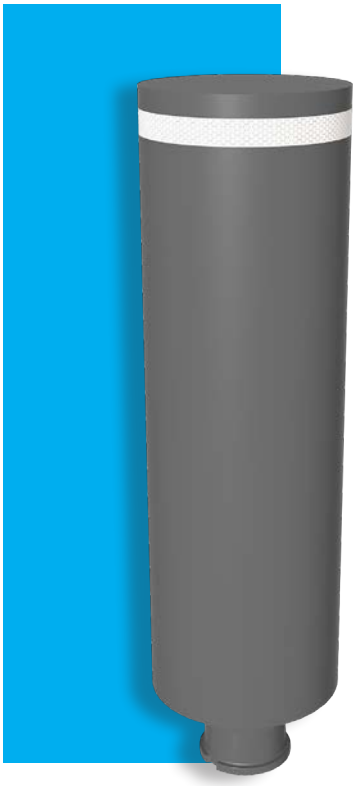
48 KM/H

64 KM/H

80 KM/H

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 I 6 mm
Diameter*	76 I 120 I 250
Height*	900 - 1200 I 500 - 550 - 750 - 950 - 1200 I 500 - 550 - 750

* Contact us for other dimensions

ITS STRENGTHS

- **Very occasional closing/opening of an access**
- **Ideal as a complement to the G6N (Ø250)**

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.

Control your access with 3 steps:

1 Unlock

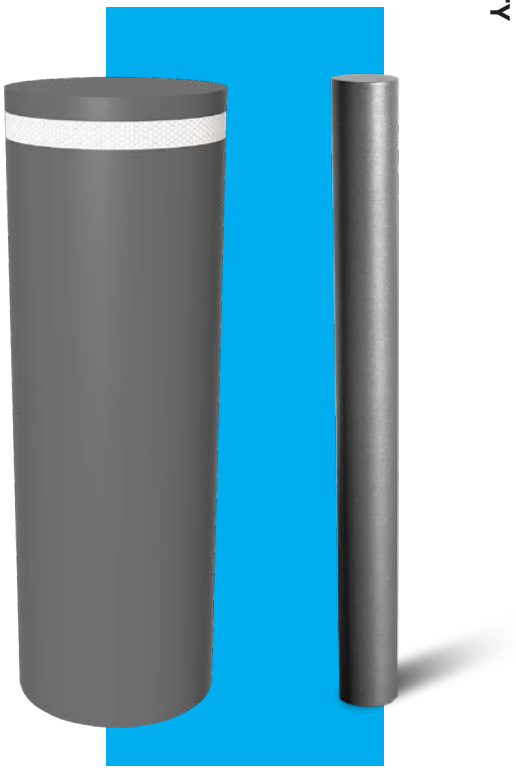
2 Turn

3 Remove

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 I 6 mm
Diameter*	76 I 120 I 250
Height*	900 - 1200 I 500 - 550 - 750 - 950 - 1200 I 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**

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**

OPERATION

Control your access with 3 steps:

1. Unlock
2. Turn
3. Remove

FIXED STAINLESS STEEL BOLLARDS AND POSTS

VENDÔME

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

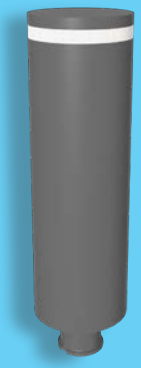
- **Definitely delimits and prohibits an access**
- **Streamlined design, compatible with re-movable bollards**
- **Various options to choose from**

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

RETRO-REFLECTIVE BAND

MOUNTING ON A PLATE

CONCRETE FILLED ROD

RANGE	G6N	G30
RESISTANCE LEVEL	BETWEEN 1.5T & 2.5T AT 48 KM/H	AT 48 KM/H
AUTOMATIC RETRACTABLE BOLLARDS	 G6N	
REMOVABLE BOLLARDS	 MISTRAL*	
FIXED BOLLARDS	 MISTRAL*	

OVERVIEW
BOLLARD RANGE

ONE30^{EVO}

AT 48 KM/H

ONE40^{EVO}

AT 64 KM/H

ONE50^{EVO}

AT 80 KM/H

* Impact resistance not determined

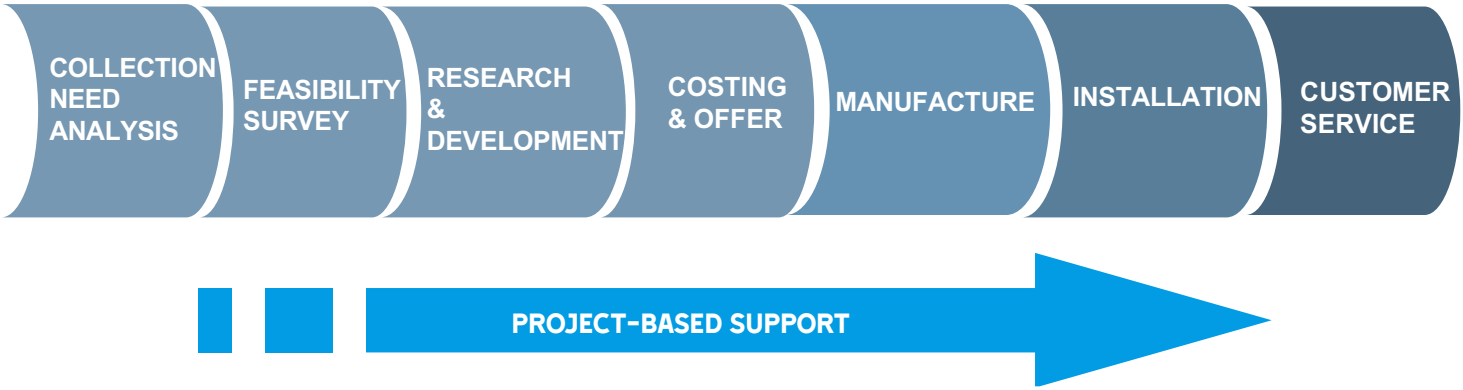
CUSTOMIZED PROJECT SUPPORT

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

CAME URBACO

Document writer: ..... **Date:** .....

In the presence of:

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:

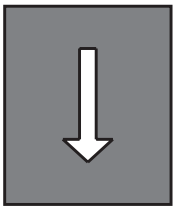
Installation on: ☐ Private site ☐ Public area

Purpose of access control: ☐ Management of limited traffic in the area ☐ Protection of people or areas

Part 2 : OPERATION DESIRED BY THE USER

1/ Direction of travel:

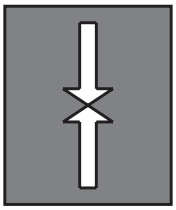
1 way
1 direction



☐ EOSC
☐ EOSA

EOSC: Controlled entry or exit
ECSC: Controlled entry and exit
EOSA: Automatic entry or exit
ECSA Automatic entry and exit

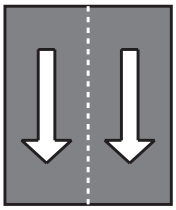
1 way
2 directions



☐ ECSC
☐ ECSA

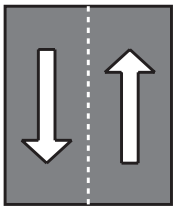
EC: Controlled entry
SC: Controlled exit
EA: Automatic entry
SA: Automatic exit

2 ways
2 parallel directions



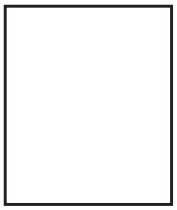
☐ EC ☐
☐ SC ☐
☐ EA ☐
☐ SA ☐

2 ways
2 opposite directions



☐ EC ☐
☐ SC ☐
☐ EA ☐
☐ SA ☐

Other specify



☐ EC ☐
☐ SC ☐
☐ EA ☐
☐ SA ☐

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

Project Feasibility Study

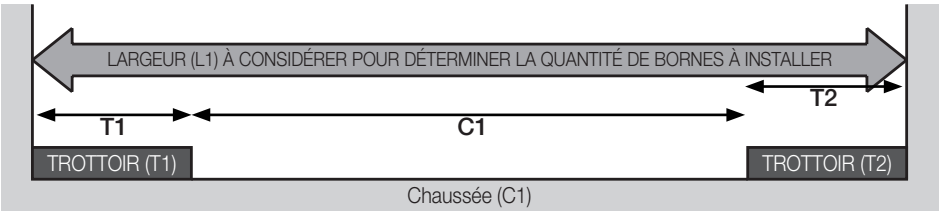
Calculating the number of bollards:

Width L1:..... meters

Sidewalk T1:..... meters

Sidewalk T2:..... meters

Roadway C1: ..... meters



Help in determining the number of bollards and the need for a fixed post/barrier, maximum recommended distance between 2 bollards:

- Ø120 mm: 1.32m
- Ø200 mm: 1.40m
- Ø250 mm: 1.45m
- Ø325 mm: 1.52m

For example:
If C1 = 3 m, 1 bollard is sufficient, however it is recommended to put 1 bollard or post on each sidewalk.
If C1 = 7 m, 4 bollards are required.

Access layout diagram:

Symbols to identify and help with the implementation of a site:	
Retractable bollard	
Fixed bollard	
Removable bollard	
City (model to be specified)	C..
Technical control unit	
Technical control panel	
Light on post	
Trench under sidewalk or curbside.	
Passing under existing curb	
Drilling of the wall for the passage of cables in the technical room	
Construction of side-walk manhole	
Construction of curb manhole	
Installation of a magnetic loop (perimeter = 6m)	6
Installation of a magnetic loop (perimeter = 8m)	8
Installation of a magnetic loop (perimeter = 10m)	10

Comments/Notes:.....

.....

.....

.....

.....

PROJECT FEASIBILITY STUDY

Part 3 : SITE SURVEY - conduct 1 study per site

LOCATION MAP MUST BE PROVIDED

Name or number of the site with number of accesses and location on the site map

Electric characteristics:

Voltage:	☐ 110 V	☐ 230 V	☐ 380 V	☐ Other: .....
Phase:	☐ single-phase	☐ triple phase with neutral	☐ triple phase with neutral	
Frequency:	☐ 50 Hz	☐ 60 Hz		

Legal constraints:

☐ Historic site ☐ Commencement Notice ☐ EP Coupling ☐ Other: .....

Environmental constraints:

☐ Dust	Suggest the installation of a control box in a technical room
☐ Humidity (greater than 90%)	Using a hygrothermostat with the heater in the controller
☐ Heat (greater than 50°C)	Propose greater ventilation for the controller
☐ Cold (lower than 10°C)	Propose bollard and controller heaters
☐ Saline environments	Propose the metallic option
	Propose stainless steel bollards and Totems if using an aluminium totem or roadside control panel
☐ Homes	If installing the controller in a residential building or near an office, do not mount the control box on the wall
☐ Pedestrian area	Offer the pedestrian safety option in the bollards (BOSECUPIETON)
☐ Other:	

Lining:

☐ Paved ☐ Concrete ☐ Deactivated concrete ☐ Asphalt ☐ Other: .....

Sloping street:

☐ Sloping lower than 10% ☐ Slopping greater than 10% (value:.....)

Subsoil-related constraints: subject to compatibility with existing underground networks

☐ Rising water *if yes connection to the EP network with pump to be recommended*

☐ High-voltage lines *if yes, what is the voltage: .....*

☐ Pipes (water / sewer / gas / telephone,etc.)

☐ Cellars / Parking lots

Type of vehicles that will use the access:

☐ Electrical vehicles ☐ Long vehicles ☐ Heavy vehicles < 7.5T

☐ Heavy vehicles > 7.5T ☐ Heavy vehicles > 3.5T ☐ Other: .....

RETRACTABLE BOLLARDS
& FIXED BOLLARDS
G30
HIGH SECURITY
CITY 6EVO
ACCESS CONTROL, GTC

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RETRACTABLE, SEMI-AUTOMATIC
& FIXED BOLLARDS
ONEEVO & G6EVO
HIGH SECURITY
CITY 6EVO
ACCESS CONTROL, GTC

AIX EN PROVENCE, FRANCE

RETRACTABLE
& FIXED BOLLARDS
ONE40EVO & ONE50EVO
HIGH SECURITY
CITY 6EVO
ACCESS CONTROL

CANNES, FRANCE

REFERENCE
CAME URBACO

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.

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RETRACTABLE, REMOVABLE & FIXED BOLLARDS
ONE40^{EVO}
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CITY 6^{EVO}
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G6^{EVO}
CITY 6^{EVO} & CITY 1
SYGMA 3
ACCESS CONTROL, GTC
AMIENS, FRANCE

RETRACTABLE,
DRILL & FIXED BOLLARDS
ONE 50 EVO
HIGH SECURITY
CITY 6EVO
ACCESS CONTROL

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& FIXED BOLLARDS
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SAFETY

ROME, ITALY

FIXED RETRACTABLE BOLLARDS
G6EVO

ACCESS CONTROL
TROLLHÄTTAN, SWEDEN

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

SBM MONTE CARLO, MONACO

RETRACTABLE BOLLARDS
G6^{EVO}
CITY 6^{EVO}
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ACCESS CONTROL
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& FIXED BOLLARDS
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CITY 6^{EVO} & CITY 1
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VIENNA, AUSTRIA


BE TECHNOLOGY.
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LE LOUIS XV

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