

PRODUCT SHEET

Automatic retractable bollards **ONE50^{EVO}**

High security - Built-in hydraulics unit

CERTIFICATION IWA 14-1:2013 BOLLARD V/7200[N3C]/80/90:4.2*

CERTIFICATION PAS68:2013 BOLLARD V/7500[N3]/80/90:3.9/22.7*



CAME 
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ONE50^{EVO}

A single ONE50^{EVO} high-security bollard withstands consecutive impacts from two trucks driving at 80 km/h. After impact, the bollard remains operational and continues to ensure security of the access point.

The ONE50^{EVO} high-security bollard is designed to control the access to sensitive installations and protects them from ram vehicle attacks.

POWER DRIVE

The hydraulic unit is built-into the bollard casing.

It requires no connection of flexible cables between the bollard and the hydraulic pump.

CHARACTERISTICS (STANDARD VERSION)

Dimensions (mm): Ø325 H1000 (above ground)

Material: high-resistance steel

Treatment: heat galvanized body (casing and bollard head)

Cylinder: simple-effect, hydraulic

Oil: biodegradable

Standard operating temperature: from 0 to 50 °C

Extracting time: from 5 to 7 seconds

Retracting time: 5 seconds

Protection rating: IP67 (sealed against dust and protected from any immersion effects)

Power supply: 400V three-phase

Total weight: 1.100 kg



CRASH-TEST 2015

CONSECUTIVE CRASH-TESTS BY TWO TRUCKS ON THE SAME ONE50^{EVO} BOLLARD ACCORDING TO STANDARDS IWA 14-1:2013 AND PAS68:2013

CAME URBACO is the first manufacturer in the world to have tested two consecutive crash tests on the same bollard (with one N3C and one N2A type trucks) according to the latest international standards (IWA 14-1:2013 et PAS68:2013). The crash-tests have proven the resilience and high-level of security of the ONE50^{EVO} bollard, which remains operational even after various ramming attempts by trucks.



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CRASH NO. 1

CERTIFICATION:

IWA 14-1:2013 Bollard V/7200[N3C]/80/90:4.2*

Energy of the impact: 1.776 kJ

Report no. 1207615-003-01 available on request

CERTIFICATION:

PAS68:2013 Bollard V/7500[N3]/80/90:3.9/22.7*

Impact energy: 1.776 kJ

Report no. 1207615-003A-01 available on request



CRASH NO. 2

CERTIFICATION:

IWA14-1:2013 Bollard V/7200[N2A]/80/90:2.9*

Impact energy: 1.765 kJ

Report no. 1207615-017-01 available on request



Interpretation of the standard IWA 14-1:2013:

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

Type of product (bollard)

Type of test (vehicle)

Weight of vehicle (kg)

Type of vehicle

Speed of impact (km/h)

Angle of impact (°)

Penetration of vehicle (m)

2010 CERTIFICATION ASTM F-2656-07 - M50-P2* (Impact energy: 1.609 kJ)

* Equivalence: DOS K12

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BOLLARD CLADDING

The ONE50^{EVO} bollard is equipped with an innovative interchangeable sleeve system that allows you to customise the appearance of the access points and repair damaged heads in under 5 minutes.



PAINTED SLEEVE

Material: 304L stainless steel

Treatment: anti-corrosion protection with high zinc-content powder primer

RAL paint: matt, thermosetting, polyester powder (RAL3020 on the standard version)



STAINLESS STEEL SLEEVE

Material: 316L stainless steel

Treatment: polishing and corrosion inhibited



CUSTOMIZED SLEEVE

Material: 304L stainless steel

Treatment: anti-corrosion protection with high zinc-content powder primer

Customization: customize with logo, wording, texture, advertising or images, with no limit as to the complexity.

Finishing: Urbaco high-performance, anti-abrasion coating



EMBOSED FINISHING PLATES

Material: steel

Treatment: anti-corrosion protection with high zinc-content powder primer



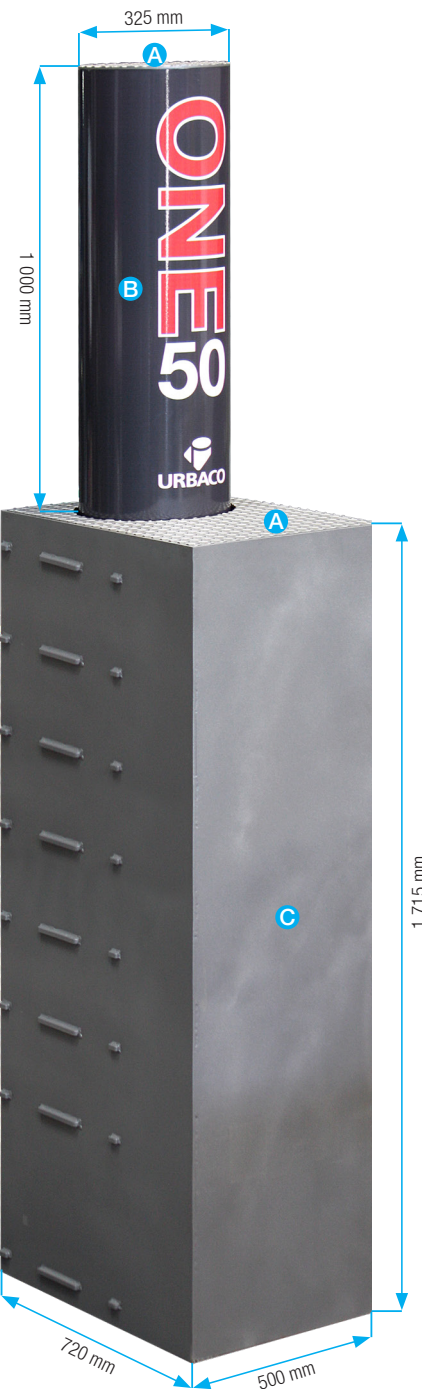
EMBOSED FINISHING PLATES

Material: 316L or 304L stainless steel

A Finishing plate

B Covered bollard head

C Casing

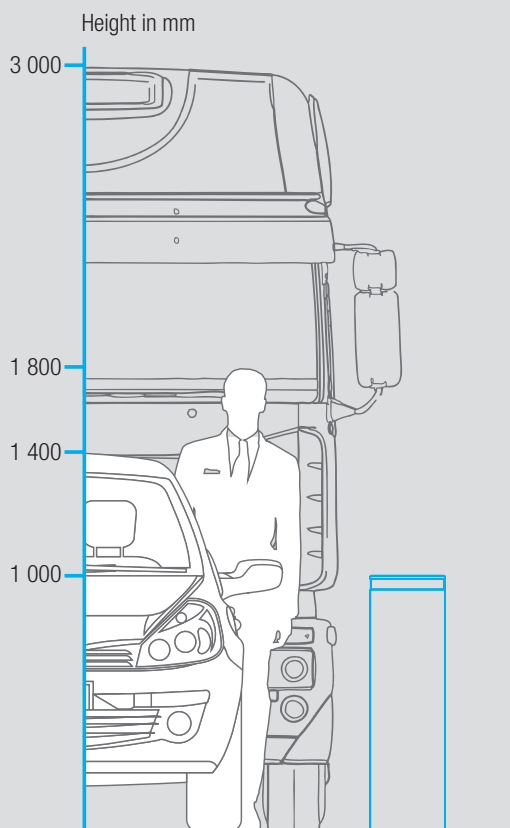


OPTIONS

- Emergency extraction that excludes the safety procedures
- Luminous crown
- Reflective band
- Rainwater removal pump
- Antifreeze system down to -20 °C
- Antifreeze system down to -50°C
- Bollard movement buzzer
- Other RAL colors

FOUNDATION (FOR ONE BOLLARD):

Anchoring depth about 2,000 mm. Volume of reinforced concrete - about 3.5 m³.



ISO EN 124 certification - Class F900 (up to 90 tons) - Installed in areas that are subject to very heavy loads such as airport loading bays.

Compliant with standard NFP98-310 - This standard defines the characteristics and performance of automatic retractable, semi-automatic and manual bollards.

Compliant with French PMR decree - The dimensions comply with the decree of 18 September, 2012 on technical requirements for street accessibility as concerns persons with impaired mobility.