

PRODUCT SHEET

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

High-security - Separate hydraulic 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 
URBACO

ONE50^{EVO}

A single high-security ONE50^{EVO} bollard can withstand the consecutive impacts of two trucks travelling at 80 km/h. After the impact, the bollard remains functional and continues to ensure the security of the access point. The ONE50^{EVO} high-security bollard is designed to control access to sensitive sites and protect strategic access points from ram vehicle attacks.

CHARACTERISTICS (STANDARD VERSION)

- Dimensions (mm):** Ø325 H1000 (above ground)
- Material:** high-strength steel
- Treatment:** hot-dip galvanising of structural parts (casing and head of the bollard)
- Cylinder:** single-acting hydraulic
- Oil:** biodegradable
- Standard operating temperature:** 0 ... 50 °C
- Raising time:** 5/7 seconds (1.5 seconds with the E.F.O. option)
- Lowering time:** 3 ... 5 s (depending on the outside temperature)
- Protection rating:** IP67 (protected against dust and the effect of immersion)
- 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



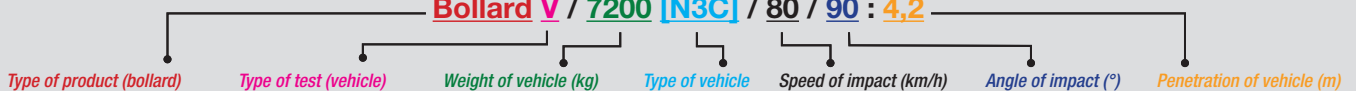
CRASH NO. 2

CERTIFICATION:
IWA 14-1:2013 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



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

* Equivalence: D05 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: zinc-based primer as standard reinforcing corrosion-resistance
RAL paint: Matt finish thermosetting polyester powder top coat (RAL3020 standard)



STAINLESS STEEL SLEEVE

Material: 316L Stainless Steel
Treatment: polish and satin-finished



CUSTOMIZED SLEEVE

Material: 304L Stainless Steel
Treatment: zinc-based primer as standard reinforcing corrosion-resistance
Customization: customization with a logo, text, texture, advertising, or image.
Finishing: anti-abrasion protection system



EMBOSSED FINISHING PLATE

Material: steel
Treatment: zinc-based primer as standard reinforcing corrosion-resistance

A Embossed finishing plate

B Covered bollard head

C Casing



EMBOSSED FINISHING PLATE

Material: 316L or 304L Stainless Steel

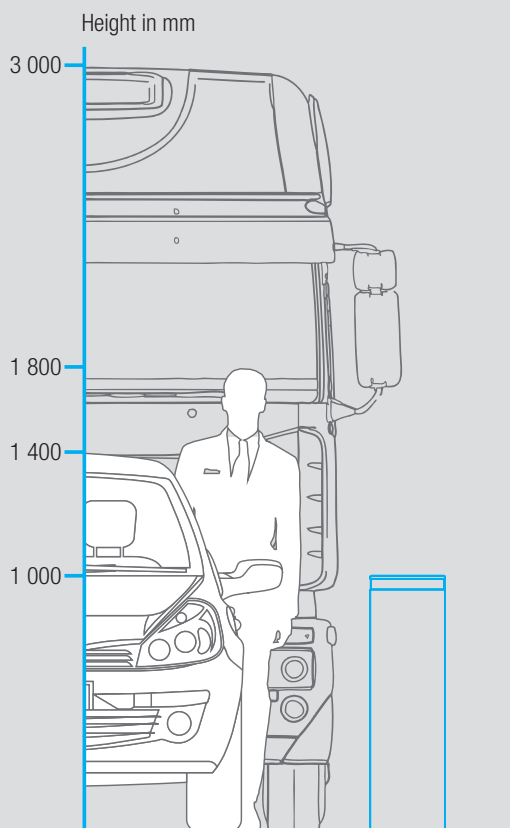


OPTIONS

- Emergency EFO in 1,5s (EFO - Emergency Fast Operation) equipped with a manual raising pump
- Emergency raising bypassing safety procedures
- Illuminated ring
- Reflective tape
- Shock-absorbing at top and bottom
- Manual raising pump
- Rainwater evacuation pump
- Frost protection down to -20 °C
- Frost protection down to -50 °C
- Bollard movement acoustic warning device
- Other RAL colours

FOUNDATION (FOR 1 BOLLARD):

Foundation depth of about 2000 mm. Volume of concrete approximately 3.5m³.



ISO EN 124 - Class F900 (up to 90 tonnes) approved - Installation in areas subject to very high wheel loads such as airport pavements.

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

Compliant with French decree PMR - Dimensions compliant with the decree of 18 September 2012 concerning the technical requirements for the accessibility of roads and public spaces for people with reduced mobility.