

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*

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 terrorist 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 OF TWO TRUCKS ON THE SAME ONE50^{EVO} BOLLARD ACCORDING TO THE IWA 14-1: 2013 AND PAS68: 2013 STANDARDS.

Urbaco is the first manufacturer in the world to have performed two crash tests on the same bollard (with two trucks of different types - N3C and N2A) according to the latest international standards (IWA 14-1:2013 and PAS68: 2013). The crash tests demonstrated the strength and high level of security of the ONE50^{EVO} bollard, which remains operational even after having stopped several "ramming" trucks.



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CRASH NO. 1



CERTIFICATION:
 IWA 14-1:2013 Bollard V/7200[N3C]/80/90:4,2*
 Impact energy: 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 IWA 14-1: 2013:



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: 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: steel (stainless on request)
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

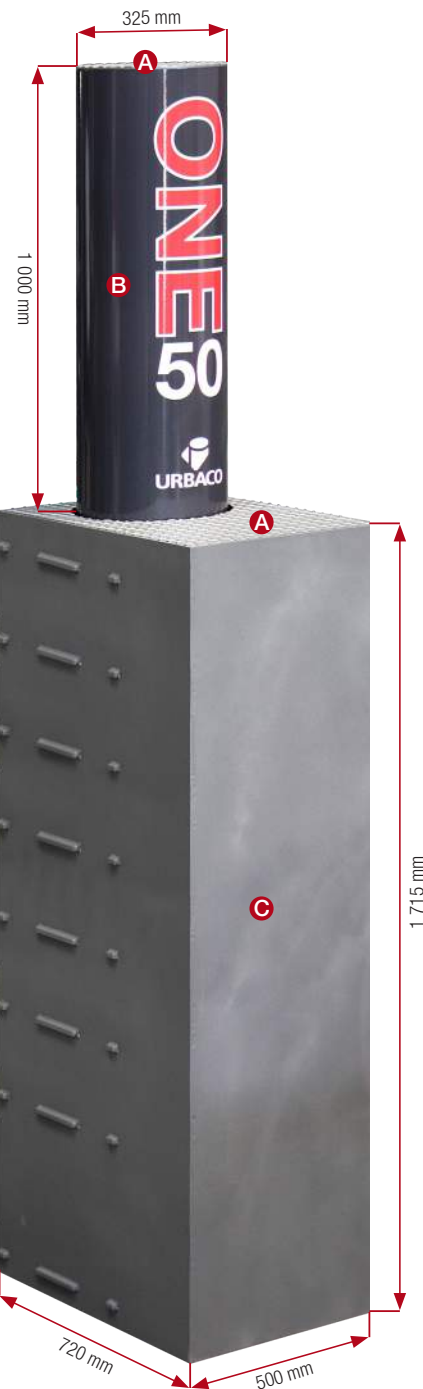
Material: steel
Treatment: zinc-based primer as standard reinforcing corrosion-resistance



EMBOSSED FINISHING PLATE

Material: 316L Stainless Steel
Treatment: electrolytic polishing

- A** Embossed finishing plate
- B** Covered bollard head
- C** Casing

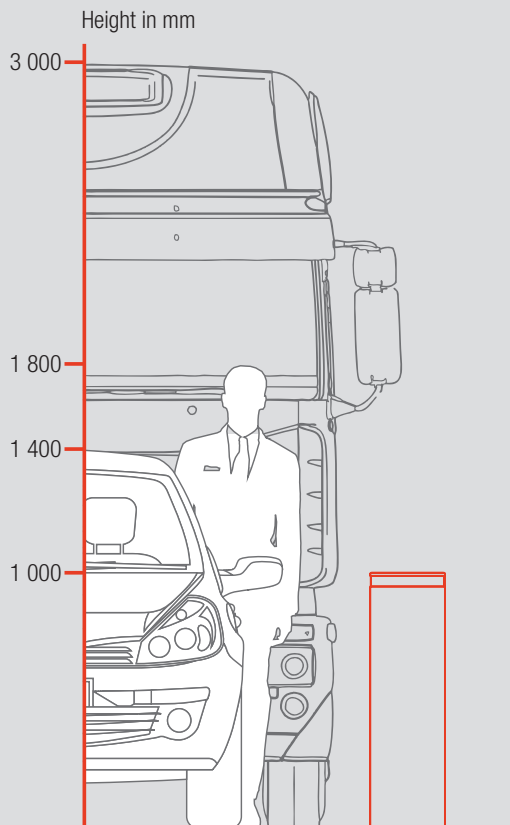


OPTIONS

- 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.