PRODUCT SHEET
Automatic retractable bollards ONE40EVO

High-security - Separate hydraulic unit

CERTIFICATION IWA 14-1:2013 BOLLARD V/7200[N2A]/64/90:2.6*
CERTIFICATION PAS68:2013 BOLLARD V/7500[N2]/64/90:2,4/15,5*

ONE40EVO

A single high-security ONE40EVO bollard can withstand the impact of a truck travelling at 64 km/h. After the impact, the bollard still ensures the security of the access point.
The ONE40EVO high-security bollard is designed to control access to sensitive sites and protect strategic access points from terrorist attacks.

CHARACTERISTICS (STANDARD VERSION)

Dimensions (mm): Ø250 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: 730 kg

THE CRASH-TEST

CRASH-TEST OF THE ONE40EVO HIGH-SECURITY BOLLARD ACCORDING TO THE IWA 14-1: 2013 AND PAS68: 2013 STANDARDS.

The crash test demonstrated the resistance and the high level of security of the ONE40EVO bollard, by stopping a ram vehicle. The vehicle was stopped with only 2.6 meters of penetration after the obstacle.

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CERTIFICATION:
IWA 14-1:2013 Bollard V/7200[N2A]/64/90:2.6*
Impact energy: 1 290 kJ
Report no. 1207615-009-B-01 available on request

CERTIFICATION:
PAS68:2013 Bollard V/7500[N2]/64/90:2,4/15,5*
Impact energy: 1 290 kJ
Report no.1207615-009-A-01 available on request

Interpretation of the standard IWA 14-1:2013:

Bollard **V** / **7200** **[N2A]** / **64** / **90** : **2.6**

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)

* Equivalence : DOS K8

ISO 9001
ISO 14001
BUREAU VERITAS
Certification

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BOLLARD CLADDING

The ONE30EVO 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

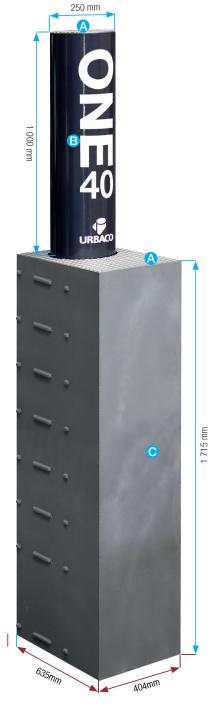### EMBOSSED FINISHING PLATE
Material: 316L or 304L Stainless Steel

A Embossed finishing plate

B Covered bollard head

C Casing

250 mm

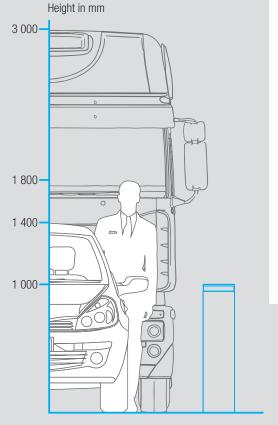1 000 mm

1 715 mm

635mm

404mm

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

Height in mm

3 000

1 800

1 400

1 000

FOUNDATION (FOR 1 BOLLARD):
Foundation depth of about 2000 mm. Volume of concrete approximately 2.75m^3.

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.

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