



## Product Data Sheet

# Fixed Bollard Cube

PS-VBLB-Cube

Fixed Bollard concealed under Special Design Cover

The CUBE is an urban obstacle protecting public spaces and users from vehicle attacks while being invisible. CUBE provides concealed proven crash tested bollard within an innovative eco-active material while providing aesthetic design suited for public space.

## Specifications

## Technical features

Fixed bollard structure:

Steel sheet of Ø 250 mm, cataphoresis treatment and RAL 7021 epoxy powder painting, optional custom colours of internal bollard

Shell structure:

Innovative eco-active material: a new-generation synthetic resin; it contributes to the health of users by purifying the surrounding environment. It is antibacterial, self-cleaning and eliminates toxic chemicals by simple contact. Also available in stone.

Dimensions:

Shell: 650mm - 1050mm Height and 500mm Square.  
Bollard: Ø 250 mm - H - 600 mm or 1000 mm

Security by Design:

This bollard is part of a Security by Design approach, to engaged professional expertise that is consistent in taking into account all the existing threats, risks and constraints in both architectural and functional aspects of a site, while advocating efficient security solutions. The CUBE Bollard has been crash tested to meet 723 KJ Rating with a dual test of 1.5t vehicle at 50 km/h and up to 7.5t vehicle at 80 km/h.

### Properties of CUBE:

Fire Retardant - Fire resistance Euroclass B s1 d0 to comply with the standard EN 13501-1:2003

Standards - Certified ISO 22197 Air purification, ISO 27447 Antibacterial, ISO 10678 chemical elimination and ISO 27 448 Self-cleaning

Resistance to Extreme Environments - Thermal resistance from -20 ° up to 50 °: suitable for thermal shocks without change of the material

Environmental - Does not contain Bisphenol A or any of the 161 substances listed in the SVHC. 100% recyclable

Impact Resistance guaranteed by 324g ball test dropped at 1.9m; resistance 240-280 N /mm3

Burn Resistance - Resistance to cigarette burns in accordance with ISO 19712- 2: slight changes in degree of gloss only from certain angles

### Air Purification:

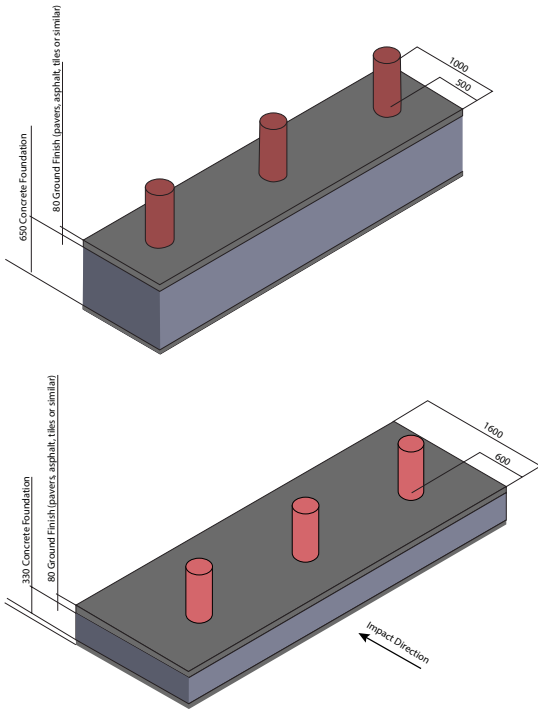
When gases come into contact with Eco Active surface , it gives rise to chemical degradation reaction, with the appearance of harmless products such as mineral salts and water.

1m2 of material purifies the air breath of 6.5 people during 12 month period

The Eco Active material can eliminate dangerous bacteria such as E.Coli or S. Aureus up to 117% more than any other material. Non- proliferation of bacteria according to ISO 846/ ASTM G22



Product Code	Finish	Overall Size	Terminal Dimensions	Resistance rating	Optional Additional steel frame for bollard	Optional Induction Charging	Depolluting surface	Optional - LED Lighting
CUBE	Certified Depolluting and Antibacterial resin	500mm x 500mm x 650mm H	250mm D x 600mm H	723,000 J 7.5T at 50 km / h	Yes	Yes	1.92m2	Yes
CUBE-NS	Natural Stone	500mm x 500mm x 650mm H	250mm D x 600mm H	723,000 J 7.5T at 50 km / h	Yes	Yes		Yes
CUBE-XL	Certified Depolluting and Antibacterial resin	500mm x 500mm x 1050mm H	250mm D x 1000mm H	723,000 J 7.5T at 50 km / h	Yes	Yes	2.35m2	Yes
CUBE-XLNS	Natural Stone	500mm x 500mm x 1050mm H	250mm D x 1000mm H	723,000 J 7.5T at 50 km / h	Yes	Yes		Yes
CUBE-XLH	Certified Depolluting and Antibacterial resin	500mm x 500mm x 1050mm H	250mm D x 1000mm H	1,850,000 J 7.5T at 50 km / h	Yes	Yes	2.35m2	Yes
CUBE -XLHNS	Natural Stone	500mm x 500mm x 1050mm H	250mm D x 1000mm H	1,850,000 J 7.5T at 50 km / h	Yes	Yes		Yes



Note: all dimension in mm

