



## PAS 68 HVM Automatic Rising Terra Quantum Bollard - 7.5t at 30 mph

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### Detailed description

The Automatic Terra Quantum Bollard Shallow Depth Side Folding Rising/ Retractable Hostile Vehicle Mitigation (HVM) Terra Bollard which has been impact tested to the International IWA 14 Specification, stopping a 7.2 tonne vehicle travelling at 30 mph resulting in zero penetration. Hydraulically driven HVM Bollard. The rising/ retractable bollard is twinned with a static/removable unit. IWA 14 Classification Code: V/7500[N2]/48/90:0.0/1.5.

The automatic side folding bollard is tested to BSi PAS 68.

The system includes a hydraulic control cabinet, which is recommended to be installed within 10 m of the Bollard system.

All made to order. Hold to run operation only. Safety system options available depending on individual site risk assessments. Compliant with BS EN 13849, A PSSA Verified Product, Secured by Design and are listed on the CPNI List of IWA 14 and PAS 68 products.

### Applications:

Suitable for public realm, crowded places and/ or pedestrianized areas where vehicles are not permitted. Terra Bollards have been proven to stop vehicles, providing HVM, counter terrorist, impact-resistant barriers preventing vehicle as a weapon attack.

### Product guidance - As Standard

#### Distance between uprights (maximum):

For the International IWA 14-1 Impact tested bollards to be installed in accordance with IWA 14-2, bollards should be installed with 1200 mm between upright bollard faces.

#### Lifted height/ height above ground:

925 mm.

#### Diameter:

219 mm.

#### Foundation requirements:

Foundation 450 mm.

### Options

#### Finish:

Shotblasted, hot zinc sprayed, primed and finished with a final coat of polyurethane paint to RAL number. This process provides a 20-year

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corrosion protection system for exterior, industrially polluted inland sites to BS 5493.

## Product specification

### Manufacturer

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**Product reference** PAS 68 Automatic Rising Terra Quantum Side Folding Bollard

**Finish** Polyester powder coated - Insert RAL colour requirement.  
Stainless steel clad

**Sleeve** Stainless Steel 1.4303 (308) grade  
Stainless Steel 1.4401 (316) grade  
Stainless steel bead blasted

**Reflective Banding** None  
Recessed/ Surface  
Single/ Double

**Lift height** 925 mm

**Actuation/ Safety** Audible alarms  
Flashing beacons  
Hydraulically driven  
Induction loop/ Vehicle detector loop system  
Laser  
Light curtain  
Photocell  
Signage  
Ultrasonic sensors

**Access control** Hold to run push buttons

**Power fail operation** Manual hand pump - Standard.

**Accessories** [None]  
[100 mm diameter red/ green LED traffic light head with monitored safety circuit]  
[Anti-tamper alarms]  
[Biodegradable oil]  
[High Security Cabinet]  
[Hydraulic oil]



[Manual hand pump]  
[Warning sign]