



**Avon Barrier**

## Avon SB970CR Scimitar Bollards



The **Avon SB970CR Scimitar Security Bollard** provides a high level of security against unauthorised vehicle access without the need for an outwardly aggressive appearance.

A Hostile Vehicle Mitigation (HVM) solution designed to withstand direct impact forces in excess of 1,800 KJ, the bollard provides protection from extreme Vehicle Borne Improvised Explosive Device (VBIED) attack to sites where aesthetics and public perception are a consideration.

Designed and manufactured by engineers with significant experience in the fields of high security and access control the SB970CR is a highly dependable and yet unobtrusive security product that will easily interface with a wide range of control equipment.

Units are assembled in our fabrication facilities using heavy gauge materials to give maximum strength and durability. This makes the SB970CR an ideal product to provide low profile yet fully effective protection for high security establishments, iconic buildings and critical infrastructure.

### Features

- Multiple testing (single bollard / multiple bollards)
- Unobtrusive appearance
- Minimal foundation requirement (2.88 cubic metres)
- Physically impact tested to PAS 68 criteria
- Manufactured from heavy gauge materials
- Manual hand pump facility
- Programmable logic control system
- 100% duty cycling

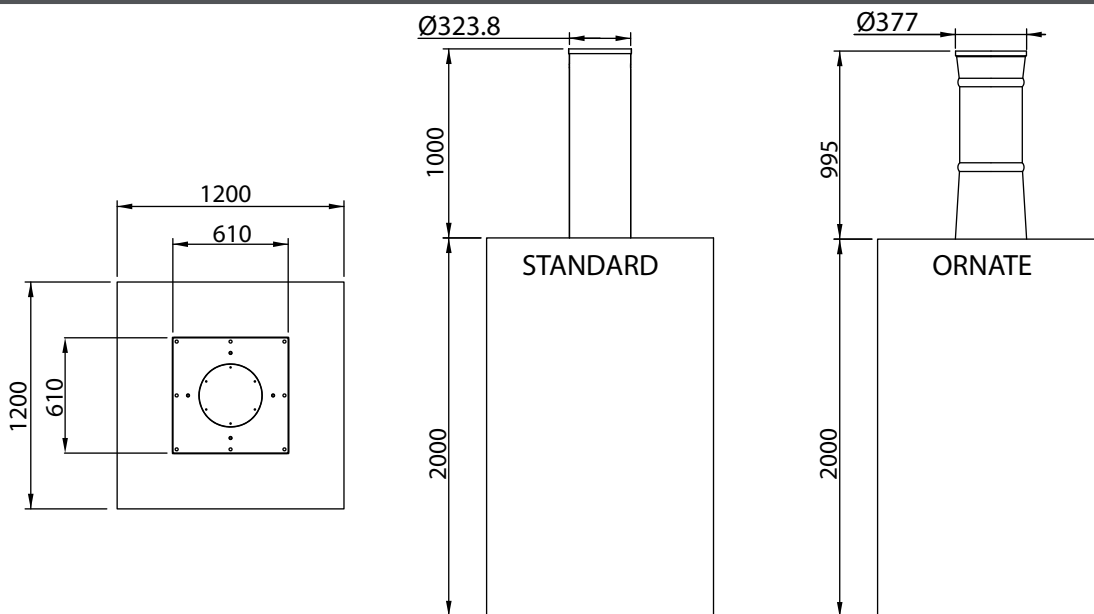
### Benefits

- Comprehensive understanding of attack resistance and confidence in individual bollard performance
- Aesthetically acceptable
- Ease of installation
- Confidence in proven performance
- Strength and durability
- Operational under power failure conditions
- Flexibility to interface with all forms of access control
- Reliable and dependable

**Hostile Vehicle Mitigation**

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# Technical Specification SB970CR Scimitar Bollard



The SB970CR is an electro-hydraulically operated bollard system with a 1000mm height when fully raised. Raised/Lowered back indication signalling can be provided to enable remote monitoring of the bollard status on a real time basis (optional).

The hydraulic power pack is controlled by a programmable logic controller (PLC) the HPU can provide outputs for a number of bollards for simultaneous operation. In the event of power failure a manual pump is provided to ensure operator control is maintained.



## Technical Details

Physical Dimensions:	HPU Cabinet - 640/940mm W x 670mm D x 1300mm H Single Bollard - 610mm W x 610mm D x 2000mm H
Basic Power Requirements:	3-Phase 415V AC, 50Hz, 20 Amps (other voltages are available)
Control Voltage:	S.E.L.V 24v
Performance:	Loading 20 Tonnes
Impact Absorption:	Single SB970CR - 1852KJ (fully operational immediately after impact) Dual SB970CR - 1852KJ (fully operational immediately after impact)
Full PAS68 Classification:	V/7500(N2)/80/90:0/25
Speed of Operation:	6 Seconds to raise or lower
Tested Model:	990mmHx322mm dia 25mm wall thickness
Operating temperature range available:	-25°C - +70°C
Construction:	The unit is comprised of a static sub-surface mounting tube and impact tube. The supporting framework is constructed from fully welded, high strength, structural steel completely encased with steel sheets to provide a self-shuttered module. The 323.9mm (+/- 1%) diameter bollard is constructed using hi-tensile structural steel.

## Options Available

Each bollard system comes with a push-button control as standard, however it can be customised to interface with a wide range of access control equipment to suit specific customer requirements (available as options) and any configuration including (but not limited to) inductive loop systems card readers, communication equipment and manned guard emergency systems can be accommodated.

For safety reasons pedestrians, cyclists and motorcycles are advised not to use a bollard controlled roadway, additional safety measures can be incorporated into the bollard system if required. Where the bollard control point is remote from the installation, we strongly recommend the fitting of a recordable CCTV system, traffic lights and safety inductive loop systems.

- Traffic lights and back-indication systems
- Access and intercom systems
- Decorative sleeves (fibre glass / stainless steel)
- Emergency buttons with lock down
- Interlocking systems to give air-lock type protection on sites for higher threat levels
- UPS backup for the electrical system
- Inductive loop systems



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Avon Barrier reserve the right to change or amend the specification of its products from time to time in furtherance of its policy of continued improvements.

Ref Avon SB970CR Scimitar Bollard version 2.7.14



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