

Avon EB950CR Armstrong Barrier



Avon EB950CR Armstrong Security Barriers provide a high level of protection where central roadway foundations are not possible / practical. Withstanding direct impact forces in excess of 720 KJ; providing shallow mounted protection to sites from extreme Vehicle Borne Improvised Explosive Device (VBIED) attack.

The EB950CR has the appearance of a traditional control barrier with the benefits of high level physical protection. It has been independently physically tested in accordance with PAS 68 by the Transport Research Laboratory (TRL). The barrier fully stopped a 7500kg truck travelling at 48kph (30mph), resulting in zero penetration and was operational after impact.

The EB950CR offers an optional VADS (Vehicle Access Delay Standards) Locking System that can be retrofitted to the end of the boom. This modification has undergone additional IWA 14-1 testing using an 1500Kg (M1) saloon car travelling at 30mph. It also successfully passed the CPNI VADS (Vehicle Access Denial Standard) testing which provides assurances that it is capable of withstanding repetitive nudging and ramming to gain access.

The VADS Locking System ensures a variety of vehicle attack tactics are protected against. It has been designed to retrofit to an existing EB950CR and is available as an option for new EB950CRs.

The EB950CR is an electro-hydraulically operated rising arm barrier with arm widths of up to 4.5m span. The barrier arm sits 1m above the roadway and is supported by 2 side support frames. During impact the arm slides into a locked position protecting the main drive mechanism from damage. Raised/Lowered back indication signalling can be provided to enable remote monitoring of the barrier status on a real time basis (optional).

The hydraulic power pack is controlled by a programmable controller enabling connection of virtually any access control to the rising arm barrier. In the event of power failure a manual pump is provided to ensure operator control is maintained.

Hostile Vehicle Mitigation

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SPECIFICATION

Physical dimensions:	600mm W x 890mm D x 1230mm H Barriers Arm - 5m max Barriers catcher foundations - 1500mm W x 3600mm D x 470mm H
Basic Power requirement:	Single phase 220V AC, 50Hz, Min 16 Amps (dependent on configuration)
Control Voltage:	S.E.L.V 24v
IWA 14-1 Classification:	V/1500(M1)/48/90:1.9
Full PAS68 Classification:	V/7500(N2)/48/90:0/0
CPNI VADS Classification: (option)	Passed
Tested Model:	1m H x 3m W
Speed of Operation:	6 - 10 Seconds to raise or lower
Operating temperature range available: (option)	-25°C - +70°C
Construction:	The boom catcher frames are fabricated from heavy steel sections, designed to support the boom in the lowered position. The boom is fabricated from heavy steel section clamped to a lift yoke. Main barrier cabinet is constructed from steel plate.
Installation:	The barrier foundation should consist of grade C35 concrete and it is recommended that the barrier is secured to the foundation using 4 M12 x 160mm chemical anchors.

Features

- Physically impact tested to PAS 68 criteria & IWA 14-1
- Physically successfully tested to VADS
- Shallow mounting from 450mm overall depth
- Manufactured from heavy gauge materials
- Manual hand pump facility
- Programmable controller
- 100% duty cycling

Benefits

- Confidence in proven performance
- Designed to protect against a range of attack type
- Overcomes site depth restrictions
- Strong and durable
- Operational under power failure conditions
- Flexibility to interface with all forms of access control
- Reliable and dependable

OPTIONS

This is a specialist high security product and is designed for use with vehicles only and a full site risk assessment must be carried out at design stage to ensure that all relevant safety systems are included.

We strongly recommend that the barrier is within sight of the barrier controller at all times and that a recordable CCTV system is in use. For safety reasons pedestrians, cyclists and motorcycles should not use a barrier controlled roadway.



- CPNI VADS Locking System
- Access and intercom systems
- Emergency buttons with lock down
- Integral inset warning lights
- UPS backup for the electrical system
- Interlocking systems to give air-lock type protection on sites with higher threat levels
- Inductive loop systems
- Traffic lights and back-indications systems

