



Certificate of Verification

This is to certify that the

CSG 11840 Crash Tested Full Depth Rising Bollard

V/7500[N2]/64/90:1.0/19.4

Supplied by:

Cova Security Gates Ltd

Unit C1, Sussex Manor Business Park, Crawley, West Sussex, RH10 9NH

has been assessed by The High Performance Assessment Ltd
and for the conditions stated on this certificate complies with:

**PSSA Specification PSP001: 2011
and other requirements of the PSSA Product Verification Scheme**

Product Registration No.: 00015
This certificate issued: 19 June 2013

HPA Certificate No.: 10014
Expiry Date: 18 April 2016

Signed on behalf of the HPA Ltd

Signed on behalf of the PSSA

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Director



A handwritten signature in black ink.

Scheme Manager



HPA carried out the verification based on the evidence provided.
PSSA reviewed this against Scheme requirements to confirm suitability for listing.

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Suppliers Management System

Assessment scope:

The design, manufacture, installation and maintenance of a range of perimeter security products and services.

UKAS accredited certification body: HPA Certificate No: 10010

Management System Verification

Evaluation of objective evidence provided by the supplier has permitted verification that:

- the maturity of the suppliers quality management system has reached a level that meets the requirements of the PSSA Product Verification Scheme
- the management system provides confidence in the capability to control design changes, manufacturing consistency and testing for the product(s) covered by this certificate
- suppliers published documentation, including operating instructions, installation procedures and marketing materials, make claims that can be substantiated in respect of product compliance with specified standards

Verified Product Performance

Product name and model number: CSG 11840 Crash tested Full Depth Rising Bollard

Product Description: Retractable bollard operated by hydraulic means.

This is a full depth rising bollard that provides a high level of security against unauthorised vehicle access.

Hostile Vehicle Impact Rating(s): V/7500[N2]/64/90:1.0/19.4

Vehicle Information:
Vehicle Type: DAF LF45 curtainside N2
Vehicle weight: 7500kg
Vehicle speed: 64 km/h

Impact Angle: 90 degrees

Vehicle Penetration Distance: 1.0m

Dispersion: 19.4 m

Test organisation (ISO 17025) certificate No: TRL Ltd UKAS Cert. No: 2721

Test reports applicable to current product: TRL Report CPR1588, TRL100: 17 April 2013



Verified Product Compliance

The following regulations and standards have been applied to these products:

Health and safety requirements:

EC Directives

2006/42/EC: Machinery Directive
2006/95/EC: Low Voltage Directive
2004/108/EC: Electromagnetic Compatibility Directive
97/23/EC: Pressure Equipment Directive
93/68/EC: CE Marking Directive

Compliance with internal and external regulations, codes of practice and applicable standards:

Safety of Machinery:

BS EN 349:1993 Safety of Machinery. Minimum gaps to avoid crushing parts of the human body.
+A1: 2008

BS EN 953: 1997 Safety of Machinery. Guards. General requirements for the design and construction of
+A1: 2009 fixed and movable guards

BS EN 1037: 1995 Safety of machinery. Prevention of unexpected start-up.
+A1: 2008

PD 5304: 2005 Guidance on safe use of machinery.

BS EN ISO 12100: 2010 Safety of machinery. General Principles for design. Risk assessment and risk reduction.

BS EN ISO 13849-1: 2008 Safety of machinery. Safety related parts of control systems. General principles for
design.

BS EN ISO 13857: 2008 Safety of machinery. Safety distances to prevent hazard zones being reached by upper
and lower limbs.

Electrical:

BS 7671: 2008 Requirements for electrical installations. IET Wiring Regulations. Seventeenth Edition.
+A1: 2011

BS EN ISO 13850: 2008 Safety of machinery. Emergency stop. Principles for design.

BS EN60204-1: 2006 Safety of machinery. Electrical equipment of machines. General requirements.
+A1: 2009

BS EN 60529: 1992 Specification for degrees of protection provided by enclosures (IP code)



Electromagnetic Compatibility:

BS EN 61000-6-1: 2007	Electromagnetic compatibility (EMC). Generic standards. Immunity for residential, commercial and light-industrial environments.
BS EN 61000-6-2: 2005	Electromagnetic compatibility (EMC). Generic standards. Immunity for industrial environments.
BS EN 61000-6-3: 2007 +A1: 2011	Electromagnetic compatibility (EMC). Generic standards. Emission standard for residential, commercial and light-industrial environments.
BS EN 61000-6-4: 2007 +A1: 2011	Electromagnetic compatibility (EMC). Generic standards. Emission standard for industrial environments.

Pressure Equipment:

BS EN ISO 4413: 2010	Hydraulic fluid power. General rules and safety requirements for systems and their components. (CD-ROM)
BS ISO 1219-2: 2012	Fluid power systems and components. Graphical symbols and circuit diagrams. Circuit diagrams.

Other:

BSI PAS 68: 2010	Impact test specification for vehicle security barriers.
CWA 16221: 2010	Vehicle security barriers. Performance requirements, test methods and guidance on application
BS 6571-4: 1989	Vehicle parking control equipment. Specification for barrier type parking control equipment

Exclusion of Liability The Perimeter Security Suppliers Association or HPA Ltd –

1. Has and accepts no liability whatsoever for any failure of any system or systems assessed under this Scheme or for the quality, fitness for purpose, or safety of any product or service which is the subject of such assessment,
2. Does not provide any representation or warranty as to any aspect of any such system, product or service, and
3. Hereby expressly exclude any and all liability or responsibility (however alleged to arise) for or in connection with the provision of any service or product or any use of any product, all and any such liability or responsibility attaching exclusively to the producer or supplier (or user as the case may be) thereof.