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Agrément Certificate
06/4382
Product Sheet 1 Issue 6

PROBEAD RENDER BEADS

PROBEAD EXTERNAL RENDER BEADS

This Agrément Certificate Product Sheet(1) relates to ProBead External Render Beads, a range of coloured PVC-U extrusions for use with render on walls of masonry or dense concrete construction on new or existing buildings.

(1) Hereinafter referred to as 'Certificate'.



The assessment includes

Product factors:

- compliance with Building Regulations
- compliance with additional regulatory or non-regulatory information where applicable
- evaluation against technical specifications
- assessment criteria and technical investigations
- uses and design considerations

Process factors:

- compliance with Scheme requirements
- installation, delivery, handling and storage
- production and quality controls
- maintenance and repair

Ongoing contractual Scheme elements†:

- regular assessment of production
- formal 3-yearly review

KEY FACTORS ASSESSED

Section 1. Mechanical resistance and stability
Section 2. Safety in case of fire
Section 3. Hygiene, health and the environment
Section 4. Safety and accessibility in use
Section 5. Protection against noise
Section 6. Energy economy and heat retention
Section 7. Sustainable use of natural resources
Section 8. Durability

The BBA has awarded this Certificate to the company named above for the products described herein. These products have been assessed by the BBA as being fit for their intended use provided they are installed, used and maintained as set out in this Certificate.

On behalf of the British Board of Agrément

Date of Sixth issue: 26 November 2024

Originally certified on 25 October 2006

Hardy Giesler
Chief Executive Officer

Certificate amended on 28 April 2026 to add length of 2.5 m to Table 1.

This BBA Agrément Certificate is issued under the BBA's Inspection Body accreditation to ISO/IEC 17020. Sections marked with † are not issued under accreditation.

The BBA is a UKAS accredited Inspection Body (No. 4345), Certification Body (No. 0113) and Testing Laboratory (No. 0357).

Readers MUST check that this is the latest issue of this Agrément Certificate by either referring to the BBA website or contacting the BBA directly.

The Certificate should be read in full as it may be misleading to read clauses in isolation.

Any photographs are for illustrative purposes only, do not constitute advice and should not be relied upon.

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SUMMARY OF ASSESSMENT AND COMPLIANCE

This section provides a summary of the assessment conclusions; readers should refer to the later sections of this Certificate for information about the assessments carried out.

Compliance with Regulations

Having assessed the key factors, the opinion of the BBA is that ProBead External Render Beads, if installed, used and maintained in accordance with this Certificate, can satisfy or contribute to satisfying the relevant requirements of the following Building Regulations:



The Building Regulations 2010 (England and Wales) (as amended)

Requirement:	**B4(1)**	**External fire spread**
Comment:		The products are restricted by this Requirement. See section 2 of this Certificate.
Regulation:	**7(1)**	**Materials and workmanship**
Comment:		The products are acceptable. See sections 8 and 9 of this Certificate.
Regulation:	**7(2)**	**Materials and workmanship**
Comment:		The products are restricted by this Regulation. See section 2 of this Certificate.



The Building (Scotland) Regulations 2004 (as amended)

Regulation:	**8(1)**	**Fitness and durability of materials and workmanship**
Comment:		The products can contribute to a construction satisfying this Regulation. See sections 8 and 9 of this Certificate.
Regulation:	**8(3)**	**Fitness and durability of materials and workmanship**
Comment:		The products are restricted by this Regulation. See section 2 of this Certificate.
Regulation:	**9**	**Building standards – construction**
Standard:	2.6	Spread to neighbouring buildings
Standard:	2.7	Spread on external walls
Comment:		The products are restricted by these Standards, with reference to clauses 2.6.4[(1)(2)], 2.6.5[(1)], 2.6.6[(2)] and 2.7.1[(1)(2)]. See section 2 of this Certificate.
Standard:	7.1(a)	Statement of sustainability
Comment:		The products can contribute to satisfying the relevant requirements of Regulation 9, Standards 1 to 6, and therefore will contribute to a construction meeting a bronze level of sustainability as defined in this Standard.
Regulation:	**12**	**Building standards – conversion**
Comment:		All comments given for the products under Regulation 9, Standards 1 to 6, also apply to this Regulation, with reference to clause 0.12.1[(1)(2)] and Schedule 6[(1)(2)].

(1) Technical Handbook (Domestic).
(2) Technical Handbook (Non-Domestic).



The Building Regulations (Northern Ireland) 2012 (as amended)

Regulation:	**23(1)(a)(i)**	**Fitness of materials and workmanship**
Comment:	**(iii)(b)(i)**	The products are acceptable. See section 2 of this Certificate.
Regulation:	**23(2)**	**Fitness of materials and workmanship**
Comment:		The products are restricted by this Regulation. See section 2 of this Certificate.

Regulation:	**36(a)**	**External fire spread**
Comment:		The products are restricted by this Regulation. See section 2 of this Certificate.

Fulfilment of Requirements

The BBA has judged ProBead External Render Beads to be satisfactory for use as described in this Certificate. The products have been assessed for use with external rendering on walls of masonry or dense concrete construction on new or existing buildings.

ASSESSMENT

Product description and intended use

The Certificate holder provided the following description for the products under assessment. ProBead External Render Beads are PVC-U extrusions designed for use with render in external applications. The back plates incorporate oval holes and a ribbed surface, providing a key for the render.

The products have the nominal characteristics given in Table 1.

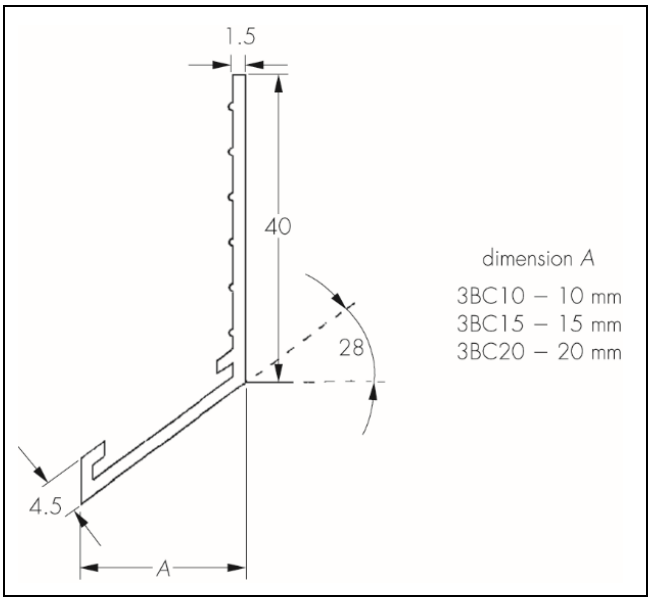
Table 1 Nominal characteristics

Characteristic (unit)	Value
Length (m)	2.5 and 3
Pre-drill	2 mm diameter holes at 68 mm centres along their length for fixing, where required
Colours	African Grey, Primrose, Bamboo, Sage, Candy, Dove, White, Cottage, Ivory, Willow, Peach, Sunbeam, Wheat, Brick, Fawn, Ocean, Mr Whippy, Dolphin

The products are available in the following ranges:

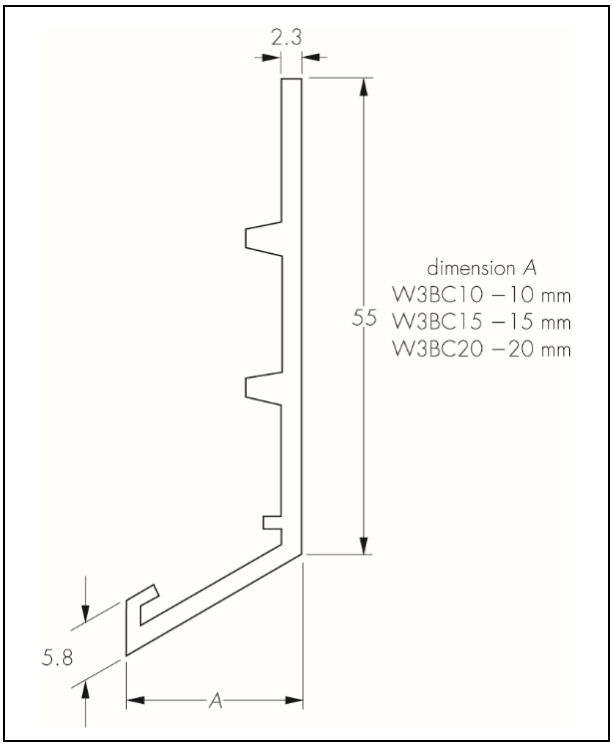
- Standard Bellcast Beads (3BC10, 3BC15 and 3BC20) — for forming a reinforced stop (or bellcasting) at the lower edge of external rendering (see Figure 1)

Figure 1 Standard Bellcast Beads (all dimensions in mm)



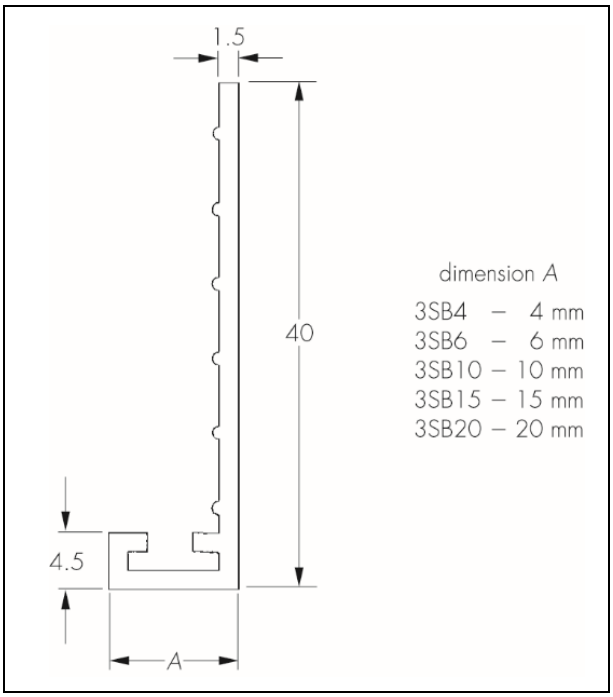
- Wide Bellcast Beads (W3BC10, W3BC15 and W3BC20) — for forming a reinforced stop (or bellcasting) at the lower edge of external rendering (see Figure 2)

Figure 2 Wide Bellcast Beads (all dimensions in mm)



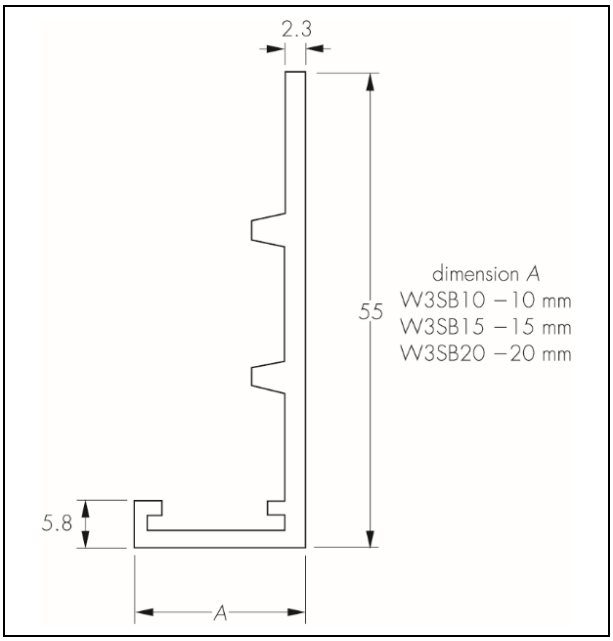
- Standard Stop Beads (3SB4, 3SB6, 3SB10, 3SB15 and 3SB20) — for forming reinforced edges of external renderings (see Figure 3)

Figure 3 Standard Stop Beads (all dimensions in mm)



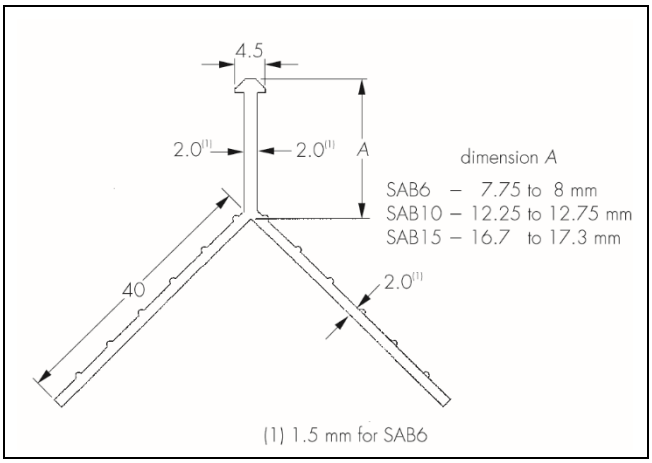
- Wide Stop Beads (W3SB10, W3SB15 and W3SB20) — for forming reinforced edges of external renderings (see Figure 4)

Figure 4 Wide Stop Beads (all dimensions in mm)



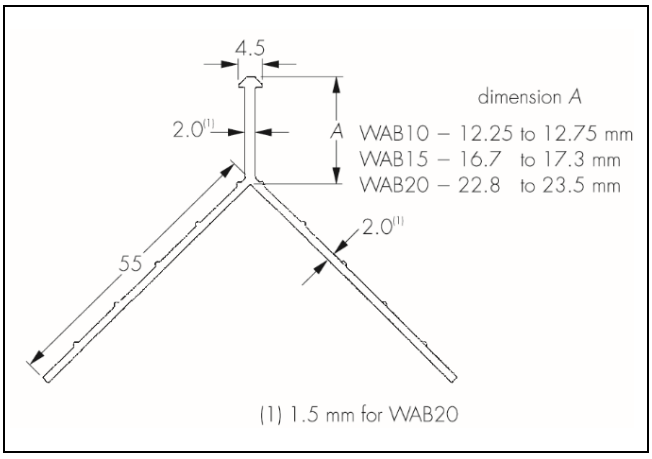
- Standard Angle Beads (SAB6, SAB10 and SAB15) — to form a reinforced arris in external rendering (see Figure 5)

Figure 5 Standard Angle Beads (all dimensions in mm)



- Wide Angle Beads (WAB10, WAB15 and WAB20) — to form a reinforced arris in external rendering (see Figure 6).

Figure 6 Wide Angle Beads (all dimensions in mm)



The products meet the dimensional specifications given for angle beads, stop beads and render stop beads in accordance with BS EN 13658-2 : 2005.

Ancillary Items

The Certificate holder recommends a reinforcement roll for use with the products, but this material has not been assessed by the BBA and is outside the scope of this Certificate.

Product assessment – key factors

The products were assessed for the following key factors, and the outcome of the assessment is shown below. Conclusions relating to the Building Regulations apply to the whole of the UK unless otherwise stated.

1 Mechanical resistance and stability

Data were assessed for the following characteristics.

1.1 Strength and stability

1.1.1 Results of strength and stability tests are given in Table 2.

Table 2 Strength and stability tests

Product assessed	Assessment method	Requirement	Result
Wide Angle Bead SAB6	Shrinkage on heating to MOAT 8 : 1973	Value achieved	6.66%
Wing Angle Bead WAB10 Colour: Ocean	Shrinkage on heating to MOAT 8 : 1973	Value achieved	6.81%
Bell Cast Bead 3BC15	Shrinkage on heating to MOAT 8 : 1973	Value achieved	7.35%
Stop Bead 3SB10	Shrinkage on heating to MOAT 8 : 1973	Value achieved	3.52%
Wing Angle Bead WAB10	Fast tensile strength to a BBA test method Tested at 0°C Tested at 23°C	Value achieved	 41 MPa 56 MPa
Wing Angle Bead WAB10	Elongation to a BBA test method Tested at 0°C Tested at 23°C	Value achieved	 18.2% 11.7%
Probead 3m standard wide angle bead SAB6	Pull-off of a corner profile with render to a BBA test method	Value achieved	316 N
Wide Angle Bead SAB6	Pull-out resistance of fixing to a BBA test method	Value achieved	300 N
Reinforcement roll	Tensile strength to ETAG 004 : 2000 Longitudinal direction Transversal direction	Value achieved	 55 $N \cdot mm^{-1}$ 61 $N \cdot mm^{-1}$
Reinforcement roll	Elongation to ETAG 004 : 2000 Longitudinal direction Transversal direction	Value achieved	 4.9% 4.6%

1.1.2 On the basis of data assessed, the products will provide adequate fixing and support to the applied render.

2 Safety in case of fire

2.1 Reaction to fire

2.1.1 The Certificate holder has not declared a reaction to fire classification in accordance with BS EN 13501-1 : 2018.

2.1.2 On the basis of data assessed, the products will be restricted in use under the documents supporting the national Building Regulations in some cases.

2.1.3 In England, the products must not be used less than 1 m from a relevant boundary, or on residential buildings more than 11 m in height or on other buildings more than 18 m in height. These constructions must also be included in calculations of unprotected area.

2.1.4 In Wales, the products must not be used less than 1 m from a relevant boundary, or on other buildings more than 18 m in height, or in some cases, on assembly and recreation buildings. These constructions must also be included in calculations of unprotected area.

2.1.5 In Scotland and Northern Ireland, the products do not achieve the minimum Class E reaction to fire classification to BS EN 13501-1 : 2018 required by the national Building Regulations and so designers must seek guidance on the proposed use of the products from the relevant building control body.

2.1.6 Designers must refer to the relevant national Building Regulations and guidance for detailed conditions of use, particularly in respect of requirements for substrate fire performance, cavity closers and barriers, fire stopping of service penetrations and combustibility limitations for other materials and components used in the overall wall construction.

3 Hygiene, health and the environment

Not applicable.

4 Safety and accessibility in use

Not applicable.

5 Protection against noise

Not applicable.

6 Energy economy and heat retention

Not applicable.

7 Sustainable use of natural resources

Not applicable.

8 Durability

8.1 The potential mechanisms for degradation and the known performance characteristics of the materials in the products were assessed.

8.2 Specific test data were assessed as given in Table 3.

Table 3 Durability results

Product assessed	Assessment method	Requirement	Result
Wide Angle Bead SAB6. Colours: African Grey, Bamboo, Candy	Weathering and colour change to MOAT 33 : 1996	No significant loss of colour	Pass
Wide Angle Bead WAB10. Colours: Dove, Ivory, Ocean	Weathering and colour change to MOAT 33 : 1996	No significant loss of colour	Pass
Bell Cast Bead 3BC15 Colours: Primrose, Sage, Peach	Weathering and colour change to MOAT 33 : 1996	No significant loss of colour	Pass
Stop Bead 3SB10. Colours: White, Willow, Sunbeam	Weathering and colour change to MOAT 33 : 1996	No significant loss of colour	Pass
Wing Angle Bead WAB10. Colour: Candy	Fast tensile strength to a BBA test method after heat ageing at 80°C for 28 days	Value achieved	46.4 MPa
Wing Angle Bead WAB10. Colour: Candy	Elongation to a BBA test method after heat ageing at 80°C for 28 days	Value achieved	10.4%
Wing Angle Bead WAB10. Colour: Candy	Fast tensile strength to a BBA test method Exposed to UVB 313 lamps cycling 4 hours UV at 50°C followed by 4 hours condensation at 50°C for 500 hours to BS EN ISO 4892-3 : 2000	Value achieved	42.3 MPa
Wing Angle Bead WAB10. Colour: Candy	Elongation to a BBA test method Exposed to UVB 313 lamps cycling 4 hours UV at 50°C followed by 4 hours condensation at 50°C for 500 hours to BS EN ISO 4892-3 : 2000	Value achieved	6.4%

8.3 On the basis of data assessed, there will be some loss of colour in service. This will vary depending on the colour chosen but will not be excessive and will be consistent over any one aspect face.

8.4 The profiles have adequate resistance to mechanical damage, but can be damaged by severe impacts.

8.5 Service Life

Under normal service conditions, the products will have a life in excess of 25 years, provided they are designed, installed and maintained in accordance with this Certificate and the Certificate holder's instructions.

PROCESS ASSESSMENT

Information provided by the Certificate holder was assessed for the following factors:

9 Design, installation, workmanship and maintenance

9.1 Design

9.1.1 The products are suitable for use with the render thicknesses given in Table 4.

Table 4 Render thicknesses

Component	Render thickness (mm)
Standard Bellcast Beads	
3BC10	6-10
3BC15	10-15
3BC20	15-20
Wide Bellcast Beads	
W3BC10	6-10
W3BC15	10-15
W3BC20	15-20
Standard Stop Beads	
3SB4	4
3SB6	6
3SB10	10
3SB15	15
3SB20	20
Wide Stop Beads	
W3SB10	10
W3SB15	15
W3SB20	20
Standard Angle Beads	
SAB6	6-8
SAB10	10-14
SAB15	15-20
Wide Angle Beads	
WAB10	10-14
WAB15	15-20
WAB20	20-24

9.2 Installation

9.2.1 Installation instructions provided by the Certificate holder were assessed and judged to be appropriate and adequate.

9.2.2 Installation must be carried out in accordance with this Certificate and the Certificate holder's instructions.

9.2.3 The correct size of profile must be selected for the particular application (see Table 4) and cut to length using normal hand tools, such as a fine-toothed saw.

9.2.4 The products are fixed to the wall with corrosion-resistant fixings, using the pre-drilled holes provided, and/or by bedding into render previously applied to the substrate. Galvanized steel fixings can be used, in accordance with BS EN 13914-1 : 2016, but stainless steel must be used in corrosive or coastal locations (less than 5 km from the sea).

9.2.5 Render is subsequently applied over the beads in in accordance with BS EN 13914-1 : 2016 and the render manufacturer's instructions.

9.3 Workmanship

Practicability of installation was assessed, on the basis of the Certificate holder's information and site visits to witness installations in progress. To achieve the performance described in this Certificate, installation of the products must be carried out by a competent general builder experienced with these types of products.

9.4 Maintenance and repair

As the products are embedded within a render and have suitable durability, maintenance is not required.

10 Manufacture

10.1 The production processes for the products have been assessed, and provide assurance that the quality controls are satisfactory according to the following factors:

10.1.1 The manufacturer has provided documented information on the materials, processes, testing and control factors.

10.1.2 The quality control operated over batches of incoming materials has been assessed and deemed appropriate and adequate.

10.1.3 The quality control procedures and product testing to be undertaken have been assessed and deemed appropriate and adequate.

10.1.4 The process for management of non-conformities has been assessed and deemed appropriate and adequate.

10.1.5 An audit of each production location was undertaken, and it was confirmed that the production process was in accordance with the documented process, and that equipment has been properly tested and calibrated.

† 10.2 The BBA has undertaken to review the above measures on a regular basis through a surveillance process, to verify that the specifications and quality control operated by the manufacturer are being maintained.

11 Delivery and site handling

11.1 The Certificate holder stated that the products are delivered in packs, each containing 34 x 3 m beads. Each pack is labelled with the Certificate holder's name, product code and the BBA logo incorporating the number of this Certificate.

11.2 Delivery and site handing must be performed in accordance with the Certificate holder's instructions and this Certificate, including:

11.2.1 Packs must be stored flat, away from direct sunlight and excess heat, and supported along their length to prevent distortion.

†ANNEX A – SUPPLEMENTARY INFORMATION

Supporting information in this Annex is relevant to the products but has not formed part of the material assessed for the Certificate.

Construction (Design and Management) Regulations 2015
Construction (Design and Management) Regulations (Northern Ireland) 2016

Information in this Certificate may assist the client, designer (including Principal Designer) and contractor (including Principal Contractor) to address their obligations under these Regulations.

Management Systems Certification for production

The management system of the manufacturer has been assessed and registered as meeting the requirements of BS EN ISO 9001 : 2015 by QMS (Certificate number GB11772).

Bibliography

BBA Test Method *Fast Tensile Test*

BBA Test Method *Tensile adhesion to substrate*

BS EN 13501-1 : 2018 *Fire classification of construction products and building elements — Classification using test data from reaction to fire tests*

BS EN 13658-2 : 2005 *Metal lath and beads — Definitions, requirements and test methods — External rendering*

BS EN 13914-1 : 2016 *Design, preparation and application of external rendering and internal plastering — External Rendering*

BS EN ISO 4892-3 : 2000 *Plastics — Methods of exposure to laboratory light sources — Fluorescent UV lamps*

BS EN ISO 9001 : 2015 *Quality management systems — Requirements*

ETAG 004 : 2000 *Guideline For European Technical Approval of External Thermal Insulation Composite System (ETICS) With Rendering*

MOAT 8 : 1973 *UEAtc Directive for rigid PVC used Externally in Building*

MOAT 33 : 1996 *The thermal assessment of masonry coatings — Colour stability*

Conditions of Certificate

Conditions

1 This Certificate:

- relates only to the product that is named and described on the front page
- is issued only to the company, firm, organisation or person named on the front page – no other company, firm, organisation or person may hold or claim that this Certificate has been issued to them
- has to be read, considered and used as a whole document – it may be misleading and will be incomplete to be selective
- is copyright of the BBA
- and any matter arising out of or in connection with it or its subject matter (including non-contractual disputes or claims) is governed by and construed in accordance with the law of England and Wales.
- the courts of England and Wales shall have exclusive jurisdiction to settle any matter arising out of or in connection with this Certificate or its subject matter (including non-contractual disputes or claims).

2 Publications, documents, specifications, legislation, regulations, standards and the like referenced in this Certificate are those that were current and/or deemed relevant by the BBA at the date of issue or reissue of this Certificate.

3 This Certificate will remain valid for an unlimited period provided that the product/system and its manufacture and/or fabrication, including all related and relevant parts and processes thereof:

- are maintained at or above the levels which have been assessed and found to be satisfactory by the BBA
- continue to be checked as and when deemed appropriate by the BBA under arrangements that it will determine
- are reviewed by the BBA as and when it considers appropriate.

4 The BBA has used due skill, care and diligence in preparing this Certificate, but no warranty is provided.

5 In issuing this Certificate the BBA is not responsible and is excluded from any liability to any company, firm, organisation or person, for any matters arising directly or indirectly from:

- the presence or absence of any patent, intellectual property or similar rights subsisting in the product or any other product
- the right of the Certificate holder to manufacture, supply, install, maintain or market the product
- actual installations of the product, including their nature, design, methods, performance, workmanship and maintenance
- any works and constructions in which the product is installed, including their nature, design, methods, performance, workmanship and maintenance
- any loss or damage, including personal injury, howsoever caused by the product, including its manufacture, supply, installation, use, maintenance and removal
- any claims by the manufacturer relating to UKCA marking and CE marking.

6 Any information relating to the manufacture, supply, installation, use, maintenance and removal of this product which is contained or referred to in this Certificate is the minimum required to be met when the product is manufactured, supplied, installed, used, maintained and removed. It does not purport in any way to restate the requirements of the Health and Safety at Work etc. Act 1974, or of any other statutory, common law or other duty which may exist at the date of issue or reissue of this Certificate; nor is conformity with such information to be taken as satisfying the requirements of the 1974 Act or of any statutory, common law or other duty of care.

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