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Agrément Certificate
05/4287
Product Sheet 3

ARMOURPLAN WATERPROOFING SYSTEMS

ARMOURPLAN P ROOF WATERPROOFING SYSTEMS

This Agrément Certificate Product Sheet⁽¹⁾ relates to Armourplan P Roof Waterproofing Systems, comprising polyester-reinforced single-ply Polyvinyl Chloride (PVC) membranes, for use in mechanically fastened and loose-laid and ballasted waterproofing systems on flat or pitched roofs with limited access.

(1) Hereinafter referred to as 'Certificate'.

CERTIFICATION INCLUDES:

- factors relating to compliance with Building Regulations where applicable
- factors relating to additional non-regulatory information where applicable
- independently verified technical specification
- assessment criteria and technical investigations
- design considerations
- installation guidance
- regular surveillance of production
- formal three-yearly review.

KEY FACTORS ASSESSED

Weathertightness — the systems will resist the passage of moisture to the interior of a building (see section 6).

Behaviour in relation to fire — the systems may enable a roof to be unrestricted under the national Building Regulations (see section 7).

Resistance to wind uplift — the systems will resist the effects of any likely wind suction acting on the roof (see section 8).

Resistance to mechanical damage — the systems will accept the limited foot traffic and loads associated with installation and maintenance (see section 9).

Durability — under normal service conditions, the systems will provide a durable roof waterproofing with a service life in excess of 35 years. This can be extended to in excess of 40 years if covered by the Certificate holder's maintenance scheme (see section 11).

The BBA has awarded this Certificate to the company named above for the systems described herein. These systems 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 Fifth issue: 10 November 2021

Originally certificated on 16 October 2013

Hardy Giesler
Chief Executive Officer



The BBA is a UKAS accredited certification body – Number 113.

*The schedule of the current scope of accreditation for product certification is available in pdf format via the UKAS link on the BBA website at www.bbacerts.co.uk
Readers **MUST** check the validity and latest issue number of this Agrément Certificate by either referring to the BBA website or contacting the BBA directly.*

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

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Regulations

In the opinion of the BBA, Armourplan SG Roof Waterproofing Systems, 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 presence of a UK map indicates that the subject is related to the Building Regulations in the region or regions of the UK depicted):



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

Requirement:	B4(1)	External fire spread
Comment:		The use of the systems in some circumstances, is restricted by the Requirement. See section 7.4 of this Certificate.
Requirement:	B4(2)	External fire spread
Comment:		On suitable substructures, the use of the systems can enable a roof to be unrestricted under the requirements of this Regulation. See sections 7.1 to 7.3 of this Certificate.
Requirement:	C2(b)	Resistance to moisture
Comment:		The membrane including joints, will enable a roof to satisfy this Requirement. See section 6 of this Certificate.
Requirement:	7(1)	Materials and workmanship
Comment:		The systems are acceptable. See section 11.1 and 11.2 and the <i>Installation</i> part of this Certificate.



The Building (Scotland) Regulations 2004 (as amended)

Regulation:	8(1)(2)	Durability, workmanship and fitness of materials
Comment:		The use of the systems satisfies the requirements of this Regulation. See sections 10.1, 11.1 and 11.2 and the <i>Installation</i> part of this Certificate.
Regulation:	9	Building standards applicable to construction
Standard:	2.6	Spread from neighbouring buildings
Comment:		The systems are restricted under clause 2.6.4 ⁽¹⁾⁽²⁾ of this Standard in some circumstances. See section 7.5 of this Certificate.
Standard:	2.8	Spread from neighbouring buildings
Comment:		The systems, when used with a suitable substructure, can be regarded as having low vulnerability under clause 2.8.1 ⁽¹⁾⁽²⁾ of this Standard. See sections 7.1 to 7.3 of this Certificate.
Standard:	3.10	Precipitation
Comment:		The membrane, including joints, will enable a roof to satisfy the requirements of this Standard with references to clauses 3.10.1 ⁽¹⁾⁽²⁾ and 3.10.7 ⁽¹⁾⁽²⁾ . See section 6 of this Certificate.
Standard:	7.1(a)	Statement of sustainability
Comment:		The systems can contribute to meeting 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 applicable to conversions
Comment:		Comments in relation to the systems 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(a)(i)	Fitness of materials and workmanship
Comment:	(iii)(b)(i)	The systems are acceptable. See sections 11.1 and 11.2 and the <i>Installation</i> part of this Certificate.
Regulation:	28(b)	Resistance to moisture and weather
Comment:		The membrane, including joints, can enable a roof to satisfy the requirements of this Regulation. See section 6 of this Certificate.
Regulation:	36(b)	External fire spread
Comment:		The systems, when used on suitable substructures, can enable a roof to be unrestricted under this Requirement. See sections 7.1 to 7.3 of this 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.

See sections: 1 *Description* (1.2) and 3 *Delivery and site handling* (3.3) of this Certificate.

Additional Information

NHBC Standards 2021

In the opinion of the BBA, Armourplan P Roof Waterproofing Systems if installed, used and maintained in accordance with this Certificate, can satisfy or contribute to satisfying the relevant requirements in relation to *NHBC Standards*, Chapter 7.1 *Flat roof, terraces and balconies*.

NHBC Standards do not apply to refurbishment of existing roofs.

CE marking

The Certificate holder has taken the responsibility of CE marking the membranes, in accordance with harmonised European Standard BS EN 13956 : 2012.

Technical Specification

1 Description

1.1 The Armourplan P Roof Waterproofing System consists of a flexible polyvinyl chloride (PVC) single-ply roof waterproofing membrane, reinforced with polyester scrim ($140 \text{ g}\cdot\text{m}^{-2}$).

1.2 The membrane is manufactured to the nominal characteristics given in Table 1.

Table 1 Nominal characteristics

Characteristic (unit)	P120
Thickness (mm)	1.2
Roll width (mm)	1060, 1500, 2120
Roll length (m)	20
Mass per unit area ($\text{kg}\cdot\text{m}^{-2}$)	1.7
Tensile strength (N per 50 mm)	
longitudinal direction	≥ 1500
transverse direction	≥ 1200
Elongation (%)	
longitudinal direction	≥ 15
transverse direction	≥ 15
Tear resistance (N)	
longitudinal direction	≥ 150
transverse direction	≥ 150
Nail tear (N)	
longitudinal direction	≥ 150
transverse direction	≥ 150
Foldability at low temperature ($^{\circ}\text{C}$)	
Unaged	≤ -30
UV aged ⁽¹⁾	≤ -30
heat aged ⁽²⁾	≤ -30
Static loading (kg)	
soft support	≥ 20
hard support	≥ 20
Resistance to impact (mm)	
soft support	≥ 1100
hard support	≥ 450
Hail resistance ($\text{m}\cdot\text{s}^{-1}$)	
soft support	≥ 30
hard support	≥ 20
Peel resistance of joints (N)	
unaged	≥ 200
heat aged ⁽³⁾	≥ 200
Standard colours	mid-grey, light grey and slate grey
Plasticiser type	phthalate

(1) UV aged 1000 light hours.

(2) Heat aged for 12 weeks at 70°C.

(3) Heat aged for four weeks at 80°C.

1.3 Ancillary items necessary for installation of the systems and included in this assessment are:

- Armourplan PVC Contact Adhesive — ready-to-use contact adhesive for adhering PVC roofing membranes onto various substrates
- IKOfix Fixing Range — mechanical fixings and pressure plates for attachment of membranes and insulation boards
- IKOfix Toothed Flatbar — steel fixing strips for membrane anchorage on mechanically fastened, inverted and ballasted systems
- Armourplan Coated Metal — 0.6 mm galvanized steel sheet, coated with 0.6 mm of Armourplan PVC Membrane, for use in detailing
- IKO Systems Torch-On Underlay — a torch-on air and vapour control layer (AVCL) suitable for metal decks (IKOpro Fast Dry Primer, the subject of BBA Certificate 91/2671, is required)

- IKO Systems S-A Underlay — a self-adhesive AVCL (IKOpro Systems Bonding Agent, the subject of BBA Certificate 91/2671, is required)
- Polimar UV Detailing Liquid — a liquid-applied system for complex detailing (subject of BBA Certificate 14/5178).

1.4 Other items or components which may be used with the systems, but which are outside the scope of this Certificate, are:

- Armourplan Detailing Membrane — homogeneous or glass tissue reinforced PVC membrane for complex detailing
- Armourplan Walkway — PVC membrane with a slip-resisting surface for use in areas of increased pedestrian traffic, such as for maintenance of plant
- Armourplan Cover Strips — glass tissue and polyester scrim reinforced membrane cover strips for jointing coated metals and detailing
- Armourplan Pre-formed Corners — pre-formed internal and external corners
- Armourplan Outlet Pipes
- Armourplan Seam Cleaner — preparation solvent for cleaning PVC roofing membranes as required (e.g. prior to welding)
- Armourplan PVC Standing Seam Profile — pre-formed PVC profile used to simulate a metal standing seam roof
- Armourflow Coated Metal — pre-coated flat metal sheet for fabrication of gutters, 1.2 mm thick steel with 1.2 mm thick Armourplan membrane
- Armourplan Drip Details — prefabricated drip details
- Armourplan Chase Termination Details — prefabricated chase termination details
- Membrane Pipe and Post Details — prefabricated bespoke details formed using Armourplan Detailing Membrane
- Armourprep — acetone-based preparation solution for PVC roofing membranes with heavy moisture contamination
- IKOpro High Performance PU Adhesive — for bonding PIR insulation boards to the substrate
- IKOfix Aluminium Clamping Strips — aluminium clamping strips for upstand termination
- IKO Glass Universal Underlay — torch-on AVCL suitable for use on concrete decks (IKOpro Fast Dry Primer required)
- IKO Systems T-O AVCL — torch-applied, metal-lined air and vapour barrier (IKOpro Fast Dry Primer required)
- IKO Systems S-A AVCL — self-adhesive, metal-lined air and vapour barrier (IKOpro Systems Bonding Agent required)
- Challenger Polyester 180 Sand VCL — suitable for pour-and-roll application (IKOpro Fast Dry Primer may be required)
- Spectravap — a polyethylene AVCL
- IKOpro Systems Bonding Agent — a self-adhesive AVCL primer
- IKOpro Quick Dry Bitumen Primer — bituminous primer for torch-on and pour-and-roll AVCL applications
- Armourplan PVC Sealant — for sealing detail terminations
- Spectratex Separation Layer — polyester separation and protection layer
- IKO Enertherm PIR — polyisocyanurate board with mineral glass tissue facings on both sides, or alternatively coated on both sides with a tri-ply gastight aluminium multi-layer complex.

2 Manufacture

2.1 The membrane is manufactured by an extrusion and calendaring process.

2.2 As part of the assessment and ongoing surveillance of product quality, the BBA has:

- agreed with the manufacturer the quality control procedures and product testing to be undertaken
- assessed and agreed the quality control operated over batches of incoming materials
- monitored the production process and verified that it is in accordance with the documented process
- evaluated the process for management of nonconformities
- checked that equipment has been properly tested and calibrated
- undertaken to carry out 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.

2.3 The management system of IKO PLC has been assessed and registered as meeting the requirements of BS EN ISO 9001 : 2015 by BSI (Certificate FM45901).

3 Delivery and site handling

3.1 The membrane is delivered to site in rolls wrapped in plastic bearing the product name, Certificate holder's name, product dimensions, article number and batch number.

3.2 Rolls should be stored horizontally, undercover and on a clean, level surface.

3.3 The Certificate holder has taken the responsibility of classifying and labelling the systems components under the *CLP Regulation (EC) No 1272/2008 on the classification, labelling and packaging of substances and mixtures*. Users must refer to the relevant Safety Data Sheet(s).

Assessment and Technical Investigations

The following is a summary of the assessment and technical investigations carried out on Armourplan P Roof Waterproofing Systems.

Design Considerations

4 General

4.1 Armourplan P Roof Waterproofing Systems are satisfactory for use as roof waterproofing membrane in mechanically fastened and loose-laid and ballasted installations on flat and pitched roofs with limited access.

4.2 Decks to which the systems are to be applied must comply with the relevant requirements of BS 6229 : 2018, BS 8217 : 2005 and, where appropriate, *NHBC Standards 2021*, Chapter 7.1.

4.3 Limited access roofs are defined for the purpose of this Certificate as those subjected only to pedestrian traffic for maintenance of the roof covering, cleaning of gutters, etc. Where traffic in excess of this is envisaged, additional protection to the membranes must be provided (see section 9).

4.4 Flat roofs are defined for the purpose of this Certificate as those having a minimum finished fall of 1:80. For design purposes, twice the minimum finished fall should be assumed, unless a detailed analysis of the roof is available, including overall and local deflection, direction of falls, etc.

4.5 Pitched roofs are defined for the purpose of this Certificate as those having a fall greater than 1:6.

4.6 Dead loads, wind loading and imposed loads are calculated in accordance with BS EN 1991-1-1 : 2002, BS EN 1991-1-3 : 2003 and BS EN 1991-1-4 : 2005, and their UK National Annexes (see also section 8).

4.7 Insulation materials to be used in conjunction with the membranes must be in accordance with the Certificate holder's instructions and be either:

- as described in the relevant Clauses of BS 6229 : 2018, or
- the subject of a current BBA Certificate and used in accordance with, and within the scope of, that Certificate.

4.8 Contact with bituminous, coal tar and oil-based products or polystyrene insulation boards must be avoided as the membranes are not compatible with lower grades of bitumen. If contact with such products is likely, a separating layer must be interposed before installing the waterproofing sheet. Where doubt arises, the advice of the Certificate holder should be sought.

4.9 The NHBC requires that the waterproofing membranes, once installed, be inspected in accordance with of *NHBC Standards 2021*, Chapter 7.1, Clause 7.1.12, including the use of an appropriate integrity test, where required. Any damage to the membrane is repaired in accordance with section 15 of this Certificate and reinspected.

5 Practicability of installation

Installation of the systems must be carried out only by installers trained and approved by the Certificate holder.

6 Weathertightness



The membrane, including joints, when completely sealed and consolidated, will adequately resist the passage of moisture into the interior of a building and enable a roof to comply with the requirements of the national Building Regulations.

7 Behaviour in relation to fire



7.1 A system comprising a system comprising a 0.7 mm trapezoidal steel deck, a 0.3 mm Spectravap polyethylene AVCL, a 130 mm PIR insulation and a layer of 1.2 mm Armourplan P membrane, mechanically fastened, achieved an EXT.F.AB classification⁽¹⁾ to BS 476-3 : 2004 and so is unrestricted with respect to proximity to a boundary under the national Building Regulations

(1) Test report reference 331716, issued by Exova Warringtonfire . Report available from the Certificate holder.

7.2 The systems, when used in protected specifications, including an inorganic covering listed in the Annex of Commission Decision 2000/553/EC, can also be considered to be unrestricted with respect to proximity to a boundary under the national Building Regulations.

7.3 The designation of other specifications must be confirmed by reference to the requirements of the documents supporting the national Building Regulations.



7.4 The systems, when used in pitches of greater than 70°, excluding upstands, must not be used on buildings in England and Wales that have a storey at least 18 m above ground level and contain: one or more dwellings, an institution, a room for residential purposes (excluding any room in a hostel, hotel or boarding house), student accommodation, care homes, sheltered housing, hospitals or dormitories in boarding schools.



7.5 The systems, when used in pitches of greater than 70°, excluding upstands, must not be used on buildings in Scotland that have a storey at least 11 m above ground level.

8 Resistance to wind uplift

8.1 The precise ballast requirement must be calculated by a suitably qualified and experienced individual in accordance with BS EN 1991-1-4 : 2005 and its UK National Annex, but should not be below a minimum thickness of 50 mm. The use of concrete slabs on suitable protective supports should be considered in areas of high design wind loads.

8.2 The resistance to wind uplift of a mechanically fastened waterproofing layer is provided by the fasteners passing through the membrane into the substrate. The number and position of fixings will depend on a number of factors including:

- wind uplift forces to be restrained
- pull-out strength of the fasteners
- tensile properties of the membrane
- appropriate calculation of safety factors.

8.3 The wind uplift forces are calculated in accordance with BS EN 1991-1-4 : 2005 and its UK National Annex. On this basis, the number of fixings required must be established by a suitably qualified and experienced individual using a maximum permissible load of 0.6 kN per fixing.

9 Resistance to mechanical damage

9.1 The systems can accept the limited foot traffic and light concentrated loads associated with installation and maintenance. Reasonable care should be taken to avoid puncture by sharp objects or concentrated loads. Where traffic in excess of this is envisaged, such as for maintenance of lift equipment, a walkway should be provided, for example, using concrete slabs supported on bearing pads.

9.2 The systems are impervious to water and will provide a weathertight roof capable of accepting minor structural movement.

10 Maintenance



10.1 The systems must be the subject of six-monthly inspections and maintenance in accordance with BS 6229 : 2018, Chapter 7 to ensure continued satisfactory performance.

10.2 In addition, a planned maintenance cycle, including inspections by the Certificate holder at minimum intervals of five years, should be introduced if an extended service life is required. The Certificate holder can advise on methods of extending the service life. This could include the use of thicker membranes, specific maintenance requirements or localised replacement and repair.

10.3 Where damage has occurred it should be repaired in accordance with section 15 of this Certificate and the Certificate holder's instructions.

11 Durability



11.1 Under normal service conditions, the systems will provide a durable roof waterproofing with a service life in excess of 35 years

11.2 The service life can be extended to in excess of 40 years with periodic maintenance as stated in section 10.2.

11.3 In environments where the membranes are in contact with organic solvents, the service life expectancy of the membranes may be reduced. In cases of doubt, the advice of the Certificate holder should be sought.

Installation

12 General

12.1 Installation of the Armourplan P Roof Waterproofing Systems must be carried out in accordance with the relevant clauses of the Certificate holder's instructions, BS 8000-0 : 2014, BS 8000-4 : 1989, the Single Ply Roofing Association (SPRA) *Single Ply : Design Guide* and this Certificate.

12.2 Substrates to which the systems are applied must be sound, dry, clean and free from sharp projections such as nail heads and concrete nibs. When used over a rough substrate, a suitable protection layer must be placed over the substrate.

12.3 Installation should not be carried out during inclement weather (e.g. rain, fog or snow). When the temperature is below 0°C, suitable precautions against surface condensation must be taken in accordance with the Certificate holder's instructions.

12.4 When used over bitumen, bitumen-bound insulation products, coal tar, pitch or oil-based products, a separation layer must be interposed between the substrate and the membrane. In cases of doubt, the advice of the Certificate holder should be sought.

12.5 Ballast or other bulk material must not be stored on one area of the roof prior to installation, to ensure localised overloading does not occur.

13 Procedure

Mechanically fastened applications

13.1 The membrane should be unrolled onto the substrate without undulations, with 110 mm minimum side laps and 60 mm minimum end laps.

13.2 The membrane is fixed to the deck (through insulation boards, where appropriate) in the joint overlaps prior to welding seams in accordance with the Certificate holder's instructions.

13.3 The membrane should be fixed at the edges either by mechanically fastening using IKOfix Toothed Flatbar or by hot-air welding to mechanically fastened flashings of Armourplan Coated Metal.

Loose-laid and ballasted applications

13.4 The membrane is loose-laid over the substrate allowing for a minimum 60 mm overlap to subsequent sheets at the sides and ends.

13.5 The membrane should be fixed at the edges with IKOfix Toothed Flatbar or hot-air welded to mechanically fastened flashings of Armourplan Coated Metal.

13.6 A layer of Spectratex Separation Layer must be installed over the completed area of membrane roof and ballasted with suitable concrete paving slabs on proprietary support pads or a 50 mm depth of well-rounded gravel.

14 Jointing and flashing procedure

Hot-air welding

14.1 The welding area must be dry and clean. If the membrane in the weld area has become contaminated, it must be cleaned in accordance with the Certificate holder's instructions.

14.2 Welding may be achieved by automatic or hand-operated machines in accordance with the Certificate holder's instructions.

14.3 The welded width of the joint must be a minimum of 30 mm when welded with an automatic welding machine and a 40 mm final weld width when welded with hand-operated machines. On completion of the weld, the seam should be tested with a suitable metal probe, and any weakness repaired immediately.

14.4 The seam is tested with a metal probe to highlight poorly welded areas. Any such areas should be made good using hot-air welding.

Flashing

14.5 Flashing and detailing should be carried out in accordance with the Certificate holder's instructions.

15 Repair

In the event of damage, repairs can be carried out by cleaning the area around the damage and applying a patch of the appropriate membrane in accordance with the Certificate holder's instructions.

16 Tests

16.1 An assessment was made on data in relation to:

- dimensions
- mass per unit area
- tensile strength and elongation
- dimensional stability
- resistance to tear
- low temperature foldability
- resistance to static load
- resistance to impact
- watertightness
- resistance to artificial ageing
- joint peel resistance
- joint shear resistance.

16.2 Tests were carried out by the BBA and the results assessed to determine resistance to wind uplift.

16.3 A durability assessment was carried out using naturally exposed samples, which were then aged artificially by UVA and heat and the following tests carried out:

- low temperature foldability
- dynamic indentation.

17 Investigations

17.1 The manufacturing process was evaluated, including the methods adopted for quality control, and details were obtained of the quality and composition of the materials used.

17.2 Existing data on fire performance of the membranes were assessed.

Bibliography

BS 476-3 : 2004 *Fire tests on building materials and structures — Classification and method of test for external fire exposure to roofs*

BS 6229 : 2018 *Flat roofs with continuously supported flexible waterproof coverings — Code of practice*

BS 8000-0 : 2014 *Workmanship on construction sites — Introduction and general principles*

BS 8000-4 : 1989 *Workmanship on building sites — Code of practice for waterproofing*

BS 8217 : 2005 *Reinforced bitumen membranes for roofing — Code of practice*

BS EN 1991-1-1 : 2002 *Eurocode 1 — Actions on structures — General actions — Densities, self-weight, imposed loads for buildings*

NA to BS EN 1991-1-1 : 2002 UK National Annex to *Eurocode 1 — Actions on structures — General actions — Densities, self-weight, imposed loads for buildings*

BS EN 1991-1-3 : 2003 + A1 : 2015 *Eurocode 1 — Actions on structures — General actions — Snow loads*

NA + A1 : 15 to BS EN 1991-1-3 : 2003 + A1 : 2015 UK National Annex to *Eurocode 1 — Actions on structures — General actions — Snow loads*

BS EN 1991-1-4 : 2005 + A1 : 2010 *Eurocode 1 — Actions on structures — General actions — Wind actions*

NA to BS EN 1991-1-4 : 2005 + A1 : 2010 UK National Annex to *Eurocode 1 — Actions on structures — General actions — Wind actions*

BS EN 13956 : 2012 *Flexible sheet for waterproofing — Plastic and rubber sheets for roof waterproofing — Definitions and characteristics*

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

18 Conditions

18.1 This Certificate:

- relates only to the product/system 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
- is valid only within the UK
- 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
- is subject to English Law.

18.2 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.

18.3 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.

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

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

18.6 Any information relating to the manufacture, supply, installation, use, maintenance and removal of this product/system which is contained or referred to in this Certificate is the minimum required to be met when the product/system 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.