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Agrément Certificate

00/3760

Product Sheet 1 Issue 9

IKO ULTRA MACH TWO SINGLE LAYER WATERPROOFING SYSTEMS

IKO ULTRA MACH TWO

This Agrément Certificate Product Sheet⁽¹⁾ relates to IKO Ultra Mach Two, for use as a mechanically fastened or adhered polymer-modified bitumen waterproofing membrane on flat and pitched roofs with limited access.

(1) Hereinafter referred to as 'Certificate'.

The assessment includes

Product factors:

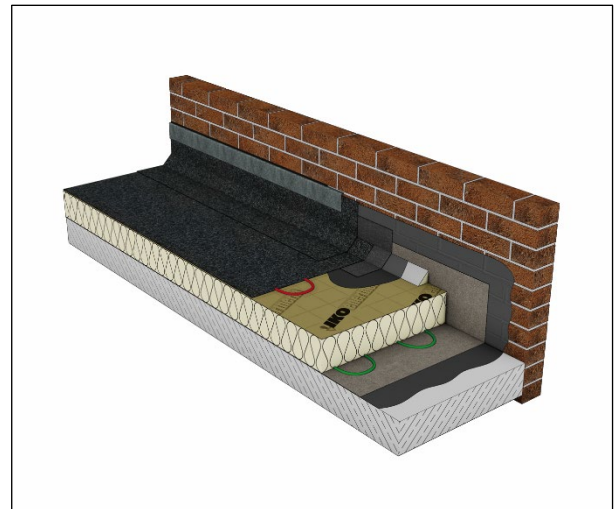
- compliance with Building Regulations
- compliance with additional regulatory or non-regulatory information where applicable
- evaluation against technical specifications
- assessment criteria and technical investigations
- uses and design considerations

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 system described herein. This system has been assessed by the BBA as being fit for its intended use provided it is installed, used and maintained as set out in this Certificate.

On behalf of the British Board of Agrément

Date of Ninth issue: 4 December 2025

Originally certified on 17 November 2000

Hardy Giesler
Chief Executive Officer

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 IKO Ultra Mach Two, 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 system is restricted by this Requirement in some circumstances. See section 2 of this Certificate.
Requirement:	B4(2)	External fire spread
Comment:		On a suitable substructure, the system may enable a roof to be unrestricted by this Requirement. See section 2 of this Certificate.
Requirement:	C2(b)	Resistance to moisture
Comment:		The system, including joints, will enable a roof to satisfy this Requirement. See section 3 of this Certificate.
Regulation:	7(1)	Materials and workmanship
Comment:		The system is acceptable. See sections 8 and 9 of this Certificate.



The Building (Scotland) Regulations 2004 (as amended)

Regulation:	8(1)(2)	Fitness and durability of materials and workmanship
Comment:		The use of the system satisfies this Regulation. See sections 8 and 9 of this Certificate.
Regulation:	9	Building standards – construction
Standard:	2.8	Spread from neighbouring buildings
Comment:		The system, when applied to a suitable substructure, may enable a roof to be unrestricted by this Standard, with reference to clause 2.8.1 ⁽¹⁾⁽²⁾ . See section 2 of this Certificate.
Standard:	3.10	Precipitation
Comment:		The system, including joints, will enable a roof to satisfy this Standard, with reference to clauses 3.10.1 ⁽¹⁾⁽²⁾ and 3.10.7 ⁽¹⁾⁽²⁾ . See section 3 of this Certificate.
Standard:	7.1(a)	Statement of sustainability
Comment:		The system can contribute to satisfying the relevant requirements of Regulation 9, Standards 1 to 6, and therefore will contribute to a construction meeting at least a bronze level of sustainability as defined in this Standard.
Regulation:	12	Building standards – conversion
Comment:		Comments given for the system 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 system is acceptable. See sections 8 and 9 of this Certificate.
Regulation:	28(b)	Resistance to moisture and weather
Comment:		The system, including joints, will enable a roof to satisfy this Regulation. See section 3 of this Certificate.
Regulation:	36(a)	External fire spread
Comment:		The system is restricted by this Regulation in some circumstances. See section 2 of this Certificate.
Regulation:	36(b)	External fire spread
Comment:		On a suitable substructure, the system may enable a roof to be unrestricted by this Regulation. See section 2 of this Certificate.

Additional Information

NHBC Standards 2025

In the opinion of the BBA, IKO Ultra Mach Two, 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 roofs, terraces and balconies*.

In addition, in the opinion of the BBA, the system, when installed and used in accordance with this Certificate, can satisfy or contribute to satisfying the relevant requirements in relation to *NHBC Standards for Conversions and Renovations*, taking account of other relevant guidance within the chapter and the suitability of the substrate to receive the system.

The *NHBC Standards* do not cover the refurbishment of existing roofs.

The opinion of the BBA does not amount to any endorsement or approval by NHBC and does not in any way guarantee that NHBC will approve such product / system as compliant with the NHBC Technical Requirements and Standards

Fulfilment of Requirements

The BBA has judged IKO Ultra Mach Two to be satisfactory for use as described in this Certificate. The system has been assessed as a mechanically fastened or adhered polymer-modified bitumen waterproofing membrane for use on flat and pitched roofs with limited access.

ASSESSMENT

Product description and intended use

The Certificate holder provided the following description for the system under assessment. IKO Ultra Mach Two is a membrane comprising styrene-butadiene-styrene (SBS)-modified bitumen with added fire retardant and a glass fibre/polyester composite reinforcement (330 g·m⁻²). The membrane is finished with a polypropylene fleece on the underside (15 g·m⁻²) and a mineral finish (green, black or brown) on the top face.

The system has the nominal characteristics given in Table 1.

Table 1 Nominal characteristics

Characteristic (unit)	Value
Width (m)	1
Length (m) ⁽¹⁾	7.5
Roll weight (kg)	40.5
Mass per unit area (kg·m ⁻²)	5.4

(1) Other lengths are available to order.

Ancillary Items

The following ancillary items are essential to use with the system and have been assessed with the system:

- IKO Ultra T-O Air & Vapour Control Layer and IKO Ultra S-A Air and Vapour Control Layer (BBA Certificate 86/1640) — modified bitumen products, reinforced with polyester and containing an aluminium foil core, for use as air and vapour control layers
- IKO Ultra H-A Detailing Underlay and IKO Ultra T-F Detailing Underlay — modified bitumen products reinforced with polyester, for use as detailing underlays
- IKO Ultra Gold Capsheet (BBA Certificate 91/2671) — used to form upstands and other roof edge details in conjunction with IKO Ultra H-A Detailing Underlay
- IKO Ultra Stick Capsheet (BBA Certificate 18/5580) — used to form upstands and other roof edge details in conjunction with IKO Ultra T-F detailing underlay
- IKOpro Sprayfast MPP — multipurpose bitumen primer or IKOpro Bonding Agent for self-adhesive membranes
- IKOpro High Performance Insulation Adhesive — A single part moisture cured polyurethane adhesive used for bonding insulation boards (red)
- IKOpro High Performance PU Adhesive — for Membrane adhesive (Green).

The Certificate holder recommends the following ancillary items for use with the system, but these materials have not been assessed by the BBA and are outside the scope of this Certificate:

- IKO enertherm PIR MG Insulation — a polyurethane insulation board, faced on both sides with a perforated glass tissue
- IKO enertherm Gold Insulation Boards — rigid polyisocyanurate (PIR) insulation boards with a composite foil-facing on both sides (BBA Certificate 15/5283)
- IKO enertherm tapered — rigid polyisocyanurate (PIR) insulation boards with a composite foil-facing on both sides (BBA Certificate 15/5283)
- IKO enertherm MW Multifix — a dual density stone wool insulation board, fleece-faced on both sides
- IKO Pre-formed Bituminous Details — manufactured from a galvanized steel sheet with an SBS-modified product adhered to it, for use at perimeters. The range includes drips, kerbs and upstand profiles, with non-standard units available to order
- IKO flexia cold applied liquids — a range of liquid-applied, moisture-cured polyurethane to provide waterproofing around complex detailing
- a range of mechanical fasteners and an 80 by 40 mm pressure plate.

Applications

The system is intended for use as a single-ply waterproofing membrane on flat and pitched roofs with limited access in:

- mechanically fastened systems
- bonded systems using IKOpro Sprayfast BMA.

Definitions for products and applications inspected

The following terms have been defined for the purpose of this Certificate as:

- limited access roof — a roof subjected only to pedestrian traffic for maintenance of the roof covering, cleaning of gutters, etc
- flat roof — a roof having a minimum finished fall of 1:80
- pitched roof — a roof having a fall in excess of 1:6.

Product assessment – key factors

The system was 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

Not applicable.

2 Safety in case of fire

Data were assessed for the following characteristics.

2.1 External fire spread

2.1.1 When tested to CEN/TS 1187 : 2012, Test 4, and classified to EN 13501-5 : 2016, the constructions given in Table 2 achieved $B_{ROOF}(t_4)$ for slopes below 10°.

Table 2 Tested systems

Layer	System 1 ⁽¹⁾	System 2 ⁽²⁾
Substrate ⁽³⁾	≥ 18 mm OSB3 (620 ± 40 kg·m ⁻³)	
Primer	IKOpro Bonding Agent	
AVCL	IKO Ultra S-A Air and Vapour Control Layer	
Insulation adhesive	IKOpro Sprayfast IBA	
Insulation ⁽⁵⁾	50 to 140 mm (single layer) or 140 + 50 to 140 + 100 mm (double layer) IKO enertherm Gold PIR	80 to 180 mm (single layer) IKO enertherm MW Multifix
Waterproofing adhesive	IKOpro Sprayfast BMA	
Waterproofing	IKO Ultra Mach Two	

(1) External fire spread classification report 22049D, issued by warringtonfire, available from the Certificate holder on request.

(2) External fire spread classification report 22049J, issued by warringtonfire, available from the Certificate holder on request.

(3) This component is outside the scope of this Certificate.

2.1.2 On the basis of data assessed, the constructions given in Table 2 will be unrestricted by the documents supporting the national Building Regulations with respect to proximity to a relevant boundary. Restrictions may apply at junctions with compartment walls.

2.1.3 A roof incorporating the system will be similarly unrestricted when protected by an inorganic covering (eg gravel or paving slabs) as listed in the Annex of Commission Decision 2000/553/EC.

2.1.4 In Wales and Northern Ireland, when used on flat roofs using a substrate designated in the supporting documents with the surface finishes listed below, the roof is also deemed unrestricted with respect to proximity to a relevant boundary:

- bitumen-bedded stone chippings covering the whole surface to a depth of not less than 12.5 mm
- bitumen-bedded tiles of a non-combustible material
- sand and cement screed, or
- macadam.

2.1.5 The classification and permissible areas of use of other specifications must be confirmed by reference to the requirements of the documents supporting the national Building Regulations.

2.2 Reaction to fire

2.2.1 The Certificate holder has not declared a reaction to fire classification to BS EN 13501-1 : 2018 for the system.

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

2.2.3 In England, the system, when used in pitches greater than 70°, excluding upstands, 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. Restrictions apply on assembly and recreation buildings. These constructions must also be included in calculations of unprotected area.

2.2.4 In Wales, the system, when used in pitches greater than 70°, excluding upstands, must not be used less than 1 m from a relevant boundary, or on buildings more than 18 m in height. Restrictions apply on assembly and recreation buildings. These constructions must also be included in calculations of unprotected area.

2.2.5 In Northern Ireland, for a system used in pitches greater than 70°, excluding upstands, that does not achieve the minimum Class E reaction to fire classification to BS EN 13501-1 : 2018, designers must seek guidance on the proposed use of the system from the relevant Building Control Body.

2.2.6 In Scotland, the use of the system is unrestricted with respect to building height and proximity to a relevant boundary. However, restrictions on the overall construction may apply, depending on the reaction to fire classification achieved by the build-up, which must be established on a case-by-case basis.

3 Hygiene, health and the environment

Data were assessed for the following characteristics.

3.1 Weathertightness

3.1.1 Results of weathertightness tests are given in Table 3.

<i>Table 3 Weathertightness</i>			
Product assessed	Assessment method	Requirement	Result
IKO Ultra Mach Two	Water vapour transmission rate to BS 3177 : 1959 (25°C/75% RH)	Value achieved	0.31 g·m ⁻² ·day ⁻¹
Built up system consisting of: - Plywood substrate - IKOpro Bonding Agent - IKO Ultra S-A Air and Vapour Control Layer - IKO Sprayfast IBA - IKO enertherm Gold PIR Insulation - IKO Sprayfast BMA - IKO Ultra Mach Two	Dynamic wind uplift to MOAT 64 : 4.3.2 : 2001	Value achieved	-3.5 kPa
Mechanically fastened system consisting of: - Plywood substrate - AVCL (hot-air welded) - Insulation - IKO Ultra Mach Two	Dynamic wind uplift to MOAT 55 : 1991	Corrected load per fixing	403 N

3.1.2 The watertightness of the system was assessed using test data from a related representative product.

3.1.3 On the basis of data assessed, the system, including joints, when completely sealed and consolidated, will adequately resist the passage of moisture to the inside of a building and so satisfy the requirements of the national Building Regulations.

3.1.4 The adhesion of the bonded system is sufficient to resist the effects of wind suction, thermal cycling and thermal shock conditions likely to occur in practice while remaining weathertight.

3.1.5 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.

3.1.6 Wind uplift forces must be 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 experienced and competent individual, using a maximum permissible load of 0.4 kN per fixing.

3.2 Resistance to mechanical damage

3.2.1 Results of resistance to mechanical damage tests are given in Table 4.

<i>Table 4 Resistance to mechanical damage</i>			
Product assessed	Assessment method	Requirement	Result
IKO Ultra Mach Two	Tensile strength to MOAT 31 : 6C : 1984	Value achieved	
	Longitudinal direction		1121 N·(50 mm) ⁻¹
	Transverse direction		1094 N·(50 mm) ⁻¹
IKO Ultra Mach Two	Tensile strength to MOAT 31 : 6C : 1984	Value achieved	
	Longitudinal direction		36%
	Transverse direction		35%
IKO Ultra Mach Two - on rigid substrate	Resistance to dynamic indentation to MOAT 27 : 5.1.10 : 1983	Value achieved	I ₄
- on compressive substrate			I ₄
IKO Ultra Mach Two - on rigid substrate	Resistance to static indentation to MOAT 27 : 5.1.9 : 1983	Value achieved	L ₃
- on compressive substrate			L ₃
IKO Ultra Mach Two	Nail tear to MOAT 27 : 5.4.1 : 1983	Value achieved	
	Tested at -10°C		
	Longitudinal direction		679 N
	Transverse direction		762 N
	Tested at 23°C		
	Longitudinal direction		523 N
	Transverse direction		579 N
	Tested at 40°C		
	Longitudinal direction		354 N
	Transverse direction		317 N

3.2.2 On the basis of data assessed, the system can accept, without damage, the limited foot traffic and light concentrated loads associated with installation and maintenance, and the effects of minor movement likely to occur in practice while remaining weathertight.

3.2.3 Where traffic in excess of the examples given in section 3.2.2 are envisaged, such as for maintenance of lift equipment, a walkway must be provided (for example, using concrete slabs supported on bearing pads). Reasonable care must be taken to avoid puncture by sharp objects or concentrated loads.

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 system were assessed.

8.2 Specific test data were assessed as given in Table 5.

Table 5 Durability			
Product assessed	Assessment method	Requirement	Result
IKO Ultra Mach Two	Low temperature flexibility to BS EN 1109 : 2013 Control	$\geq -15^{\circ}\text{C}$	Pass
	After heat ageing at 70°C for 240 days	$\leq 0^{\circ}\text{C}$	Pass
IKO Ultra Mach Two	Heat resistance to BS EN 1110 : 2010 Control	$\geq 100^{\circ}\text{C}$	Pass
	After heat ageing at 70°C for 240 days	$\geq 90^{\circ}\text{C}$	Pass
IKO Ultra Mach Two	Dimensional stability to MOAT 27 : 5.1.6.1 : 1983 Longitudinal direction	Value achieved	-0.1%
	Transverse direction		0.0%

8.3 Some localised loss of the mineral surfacing may occur in areas of complex detailing of the roof, eg upstands.

8.4 Service life

Under normal service conditions, the system will have a life in excess of 35 years, provided it is 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 design process was assessed by the BBA, and the following requirements apply in order to satisfy the performance specified in this Certificate.

9.1.2 Decks to which the system is to be applied must comply with the relevant requirements of BS 6229 : 2018,

BS 8217 : 2005 and, where appropriate, *NHBC Standards 2025*, Chapter 7.1.

9.1.3 For design purposes of flat roofs, twice the minimum finished fall must be assumed, unless a detailed structural analysis of the roof is available, including overall and local deflection, direction of falls etc.

9.1.4 The resistance to wind uplift for warm roofs will be dependent on the cohesive strength of the insulation and method by which it is secured to the roof deck. This must be taken into account when selecting a suitable insulation material.

9.1.5 Insulation materials to be used in conjunction with the product 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 limitations of, that Certificate.

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 Installation of the system must be carried out in accordance with the relevant clauses of BS 8000-0 : 2014, BS 8000-4 : 1989 and BS 8217 : 2005, the Certificate holder's instructions and this Certificate.

9.2.4 Installation of the insulation boards must be carried out in accordance with the insulation manufacturer's installation instructions.

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

9.2.6 Installation must not be carried out during inclement weather (eg rain, fog or snow). When the temperature is below 5°C, suitable precautions against surface condensation must be taken.

9.2.7 If the roof is likely to be subjected to uncontrolled pedestrian access, the substructure must satisfy the requirements of BS 8217 : 2005. To prevent damage to the roof covering, one of the appropriate surface finishes referred to in clauses 8.19 and 9.2 of the Code of Practice must be used.

9.2.8 The system has a mineral surface finish and, when used on roofs with limited access, requires no further surface protection.

9.2.9 IKO Ultra Stick Capsheet must be used in all detailing work in conjunction with IKO Ultra T-F detailing underlay (for example, upstands and protrusions) in accordance with the Certificate holder's instructions.

9.2.10 Side and end laps are adhered using heat welding and must be a minimum of 120 mm. An uninterrupted bitumen bead of approximately 5 mm must exude from all laps to indicate a satisfactory seal.

9.2.11 For mechanically fastened systems, the type of mechanical fixings used will vary according to the type of deck and insulation used. The Certificate holder must be consulted for advice, but such advice is outside the scope of this Certificate.

9.2.12 The system must be fixed to the deck (through insulation boards, where appropriate) in the joint overlaps with the fixing screws positioned at least 80 mm from the edge, prior to welding the joint. The fixings must be installed at centres calculated from the average wind force in that location.

9.2.13 For adhered systems, IKOpro Sprayfast MPP, IKOpro Bonding Agent, IKOpro PU adhesive for insulation and IKOpro PU adhesive for bitumen membranes must be applied in accordance with the Certificate holder's installation instructions.

9.2.14 The NHBC requires that the system, once installed, is inspected in accordance with *NHBC Standards 2025*, Chapter 7.1, Clause 7.1.11, including undergoing an appropriate integrity test, where required. Any damage to the system must be repaired in accordance with section 9.4 of this Certificate and reinspected, in order to maintain system performance.

9.3 Workmanship

Practicability of installation was assessed by the BBA and on the basis of the Certificate holder's information. To achieve the performance described in this Certificate, installation of the system must be carried out by installers trained and approved by the Certificate holder.

9.4 Maintenance and repair

9.4.1 Ongoing satisfactory performance of the system in use requires that it is suitably maintained. The guidance provided by the Certificate holder was assessed by the BBA and found to be appropriate and adequate.

9.4.2 The following requirements apply in order to satisfy the performance assessed in this Certificate:

9.4.2.1 The system must be the subject of six-monthly inspections and maintenance in accordance with the recommendations of BS 6229 : 2018, Chapter 7, and the Certificate holder's own maintenance requirements, where relevant, in order to ensure satisfactory performance.

9.4.2.2 In the event of damage, the system can be effectively repaired after cleaning the surrounding area, with pieces of the system bonded to the damaged area in accordance with the Certificate holder's instructions.

10 **Manufacture**

10.1 The production processes for the system 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 system component is delivered to site in rolls, with paper wrappings or tapes bearing the Certificate holder's name, product name, product code, product dimensions and the BBA logo incorporating the number of this Certificate.

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

11.2.1 Rolls must be stored on end on a clean, level surface, away from excessive heat and kept under cover.

†ANNEX A – SUPPLEMENTARY INFORMATION

Supporting information in this Annex is relevant to the system 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.

CLP Regulations

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

UKCA marking

The Certificate holder has taken the responsibility of UKCA marking the system in accordance with Designated Standard EN 13707 : 2013.

CE marking

The Certificate holder has taken the responsibility of CE marking the system in accordance with harmonised European Standard EN 13707 : 2013.

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 BSI (Certificate Q 05233).

Bibliography

- BS 3177 : 1959 *Method for determining the permeability to water vapour of flexible sheet materials used for packaging*
- BS 6229 : 2018 *Flat roofs with continuously supported flexible waterproof covering — 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 1109 : 2013 *Flexible sheets for waterproofing — Bitumen sheets for roof waterproofing — Determination of flexibility at low temperature*
- BS EN 1110 : 2010 *Flexible sheets for waterproofing — Bitumen sheets for roof waterproofing — Determination of flow resistance at elevated temperature*
- BS EN 1991-1-4 : 2005 *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 13501-1 : 2018 *Fire classification of construction products and building elements — Classification using test data from reaction to fire tests*
- BS EN ISO 9001 : 2015 *Quality management systems — Requirements*
- CEN/TS 1187 : 2012 *Test methods for external fire exposure to roofs*
- EN 13501-5 : 2016 *Fire classification of construction products and building elements — Classification using data from external fire exposure to roof tests*
- EN 13707 : 2013 *Flexible sheets for waterproofing — Reinforced bitumen sheets for roof waterproofing — Definitions and characteristics*
- MOAT 27 : 1983 *UEAtc General directive for the assessment of roof waterproofing systems*
- MOAT 31 : 1984 *UEAtc Special directives for the assessment of reinforced homogeneous waterproof coverings of styrene-butadiene-styrene (SBS) elastomer bitumen*
- MOAT 55 : 1991 *UEAtc Supplementary guide for the assessment of mechanically fastened roof waterproofing*
- MOAT 64 : 2001 *UEAtc Technical guide for the assessment of roof waterproofing systems made of reinforced app or SBS polymer modified bitumen sheets*

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 be displayed on the BBA website, and the Certificate Holder is entitled to use the Certificate and Certificate logo, provided that the product 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.