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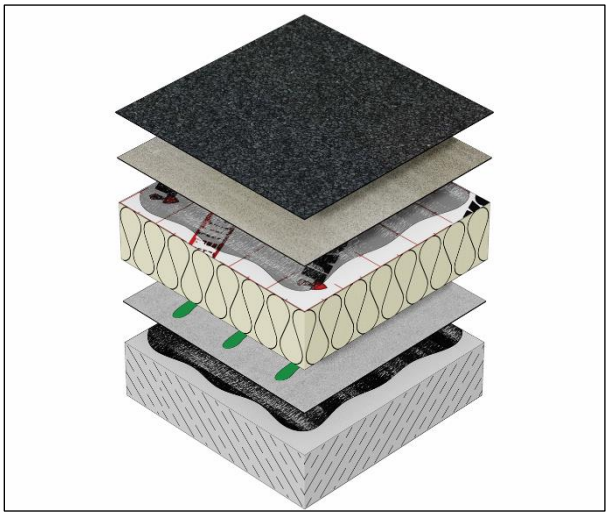
Agrément Certificate
20/5780
Product Sheet 1 Issue 2

IKO ROOF WATERPROOFING SYSTEMS

PERMAGUARD M TORCH ON WATERPROOFING SYSTEMS

This Agrément Certificate Product Sheet(1) relates to Permaguard Torch On Waterproofing Systems, for use as a torch-on systems on flat or pitched roofs with limited access as a partially or fully bonded roof waterproofing system comprising either two or three layers.

(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 systems described herein. The systems have been assessed by the BBA as being fit for its 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 Second issue: 9 August 2024
Originally certified on 12 October 2020

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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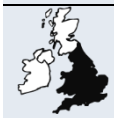
SUMMARY OF ASSESSMENT AND COMPLIANCE

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 Permaguard M Torch On 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 Building Regulations 2010 (England and Wales) (as amended)

Requirement:	**B4(1)**	**External fire spread**
Comment:		The systems are 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 systems may contribute to satisfying this Requirement. See section 2 of this Certificate.
Requirement:	**C2(b)**	**Resistance to moisture**
Comment:		The systems, including joints, may enable a roof to satisfy this Requirement. See section 3 of this Certificate.
Regulation:	**7(1)**	**Materials and workmanship**
Comment:		The systems are 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 systems satisfies this Regulation. See sections 8 and 9 of this Certificate.
Regulation:	**9**	**Building standards - construction**
Standard:	2.8	Spread from neighbouring buildings
Comment:		When applied to a suitable substructure, the systems may contribute to satisfying this Standard, with reference to clause 2.8.1(1)(2). See section 2 of this Certificate.
Standard:	3.10	Precipitation
Comment:		The systems, including joints, may enable a roof to satisfy the requirements of 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 systems 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 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(1)(a) (i)(iii)(b)(i)**	**Fitness of materials and workmanship**
Comment:		The systems are acceptable. See sections 8 and 9 of this Certificate.
Regulation:	**28(b)**	**Resistance to moisture and weather**
Comment:		The systems, including joints, can satisfy this Regulation. See section 3 of this Certificate.
Regulation:	**36(a)**	**External fire spread**
Comment:		The systems are 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 use of the systems may enable a roof to be unrestricted under this Regulation. See section 2 of this Certificate.

Additional Information

NHBC Standards 2024

In the opinion of the BBA, Permaguard M Torch On 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 roofs, terraces and balconies.*

In addition, in the opinion of the BBA, the systems, 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 systems.

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

Fulfilment of Requirements

The BBA has judged Permaguard M Torch On Waterproofing Systems to be satisfactory for use as described in this Certificate. The systems have been assessed for use on flat or pitched roofs with limited access as a partially or fully bonded roof waterproofing system comprising either two or three layers.

ASSESSMENT

Product description and intended use

The Certificate holder provided the following description for the systems under assessment. Permaguard M Torch On Waterproofing Systems consists of:

- Permaguard M Torch On — a fully bonded torch-applied, polyester reinforced, styrene butadiene styrene (SBS) modified bitumen cap sheet. It has an upper surface finish of mineral granules and a thermo-fusible film on the underside
- IKO Ultra T-O Underlay — a fully bonded torch-applied, polyester reinforced, SBS modified underlay. It has an upper surface finish of sand and a thermo-fusible film on the underside
- IKO Ultra H-A Underlay — a partially bonded, polyester reinforced, SBS modified underlay. It has an upper surface finish of mineral granules and a self-adhesive bitumen coating on the underside.

The systems components have the nominal characteristics given in Table 1.

Table 1 Nominal characteristics of Permauard M Torch On System

Characteristic (unit)	Components		
	Permaguard M Torch On	IKO Ultra T-O Underlay	IKO Ultra H-A Underlay
Roll width (m)	1(1)	1	1(1)
Roll length (m)	8	12	16
Mass per unit area (kg·m^{-2})	4.750	3.167	2.250
Roll wight (kg)	38.000	38.000	36.000

(1) Including selvedge

Ancillary Items

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

- traditional bituminous membranes to BS 8747 : 2007, where required
- IKO bonding bitumen components — used for bonding between layers and to substrates
- Challenger 180 — a nailed preparation layer
- IKOpro Quick Dry Bitumen Primer — for use in preparation of substrates
- IKOpro SA Bitumen Primer — a cold-applied bituminous primer for preparing substrates prior to application of H-A membranes
- IKO Venting Layer — for use in partially-bonded applications
- IKO Ultra H-A Detailing Underlay – for use for detail works and upstands
- IKO Ultra T-O and IKO Ultra S-A Air and Vapour Control Layers — air and vapour control layers (AVCLs)
- IKOpro Bonding Agent — a solvent-based primer used for preparing surfaces prior to the application of self-adhesive membranes
- IKOpro Sprayfast IBA (Insulation Bonding Adhesive) — a spray-applied PU adhesive for bonding of insulation materials
- IKOpro High Performance PU Adhesive for insulation — a single-part, moisture-curing, polyurethane adhesive used for bonding insulation boards
- IKO Enertherm Insulation — a range of rigid insulation boards for use as part of a built-up warm roof construction
- Mineral Wool Insulation – a range of insulation boards for use as part of a built-up roof construction.

Definitions for products and applications inspected

The following terms are 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. Where traffic in excess of this is envisaged, additional protection to the membrane must be provided.
- 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 systems were assessed for the following key factors, and the outcome of the assessments 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 BS EN 13501-5 : 2016 the systems given in Table 2 of this Certificate achieved B_{ROOF}(t4) for slopes below 10°.

Table 2 External Fire test results

Layer	System(1)
Substrate	18 mm OSB(2)
Primer	IKOpro bonding agent(2)
AVCL	IKO Ultra SA AVCL (2)
Adhesive	IKOpro High Performance PU adhesive(2)
Insulation	IKO Enertherm Gold Insulation(2) 50 and 140 mm single layers and double layers (140 + 50 mm) and (140 + 100 mm)
Primer	IKOpro bonding agent(2)
Underlayer	IKO Ultra H-A Underlay
Capsheet	Permaguard M Torch On

(1) Fire test/classification reports 22050D, 22050B and 22050C conducted by Warringtonfire. Reports are available from the Certificate holder.
(2) Outside the scope of this Certificate.

2.1.2 On the basis of data assessed, the constructions listed 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 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 to be unrestricted with respect 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.

2.1.4 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 systems.

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

2.2.3 In England, the systems, 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 systems, 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 or in some cases, on assembly and recreation buildings. These constructions must also be included in calculations of unprotected area.

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

2.2.6 In Scotland, the systems are unrestricted with respect to height and distance from a relevant boundary. However, restrictions on the overall construction may apply, depending on the reaction to fire classification achieved by the built-up system, 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.

Table 3 Weathertightness results

Product assessed	Assessment method	Requirement	Result
Permaguard M Torch On	Vapour resistance to BS 3177 : 1959	Value achieved	466 $MN \cdot s \cdot g^{-1}$
Ultra H-A Underlay(1)	Wind uplift to MOAT 64 : 2001, clause 4.3.2	Value achieved	5.5 kPa
Permaguard M Torch On	Peel from concrete substrate to MOAT 27 : 5.1.3 : 1983	≥ 25 $N \cdot (50\ mm)^{-1}$	Pass

(1) Ultra H-A Underlay partially bonded to 18 mm OSB.

3.1.2 Watertightness and wind uplift for Permaguard M Torch On were assessed on the basis of existing test data for representative related product.

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

3.1.4 The adhesion of the systems is sufficient to resist the effects of wind suction, elevated temperature and thermal shock conditions likely to occur in practice and remain weathertight.

3.2 Resistance to mechanical damage

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

Table 4 Resistance to mechanical damage results

Product assessed	Assessment method	Requirement	Result
Permaguard M Torch On	Dynamic indentation to MOAT 27 : 5.1.10 : 1983	Value achieved	
	- hard substrate		I_3
	- soft substrate		I_4
Permaguard M Torch On	Dynamic indentation to MOAT 27 : 5.1.9 : 1983	Value achieved	
	- hard substrate		L_4
	- soft substrate		L_4
Permaguard M Torch On	Fatigue cycling to MOAT 27 : 5.1.8 : 1983	No damage after 500 cycles	Pass

3.2.2 Tensile properties and nail tear for Permaguard M Torch On were assessed on the basis of existing test data for representative related product.

3.2.3 On the basis of data assessed, the systems can accept, without damage, the limited foot traffic and light concentrated loads associated with installation and maintenance and the effects of minor structural movement while remaining weathertight. Where traffic in excess of this is envisaged, such as for maintenance of lift equipment, a walkway must be provided.

3.2.4 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 systems were assessed.

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

Table 5 Durability tests

Product assessed	Assessment method	Requirement	Result
Permaguard M Torch On	Peel strength from concrete to MOAT 27 : 5.1.3 : 1983 after 28 days water soak at 70°C	≥ 25 N·(50 mm)$^{-1}$	Pass
Permaguard M Torch On	Heat resistance to MOAT 31 : 6E : 1984	≥ 100°C	Pass
Permaguard M Torch On	Resistance to slippage to MOAT 27 : 5.1.7 : 1983	≤ 2 mm	Pass

8.3 Effect of heat ageing, dimensional stability and low temperature flexibility were assessed on the basis of existing test data for a representative related products.

8.4 Visits to existing sites over 20 years old were also carried out to assess the long-term performance of the systems in use. The conclusion of the visits was that the systems retained sufficient physical characteristics to maintain their intended function.

8.5 When using the mineral-finished membrane, it is possible that some localised loss of mineral surfacing may occur after some years in areas where complex detailing of the roof design is incorporated.

8.6 Service life

Under normal service conditions, the systems will have a life of at least 25 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 assessed in this Certificate.

9.1.2 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* 2024, 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 and direction of falls.

9.1.4 Structural decks to which the systems are to be applied must be suitable to transmit the dead and imposed loads experienced in service. Allowance needs to be made for loading deflections to ensure that the free drainage of water is maintained.

9.1.5 Imposed loads, dead loading and wind loads must be calculated by a suitably experienced and competent individual 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.

9.1.6 If the roof is likely to be subjected to uncontrolled pedestrian access, the substructure must satisfy the requirements of the relevant clauses of BS 8217 : 2005, and one of the surface finishes described in clause 6.12 of the Code of Practice must be used.

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

9.1.8 Insulation materials to be used in conjunction with the systems 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 be 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, the Certificate holder's instructions and the relevant clauses of BS 8000-0 : 2014, BS 8000-4 : 1989 and BS 8217 : 2005. A summary of instructions and guidance is provided in Annex A of this Certificate.

9.2.3 Deck surfaces must be sound, dry, clean and free from sharp projections such as nail heads and concrete nibs.

9.2.4 Substrates must be suitably primed prior to installation, where required. The Certificate holder can advise on suitable materials for a particular installation, but such advice and materials are outside the scope of this Certificate.

9.2.5 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.

9.2.6 At falls in excess of 5° (1:11), precautions against slippage and the provision for mechanical fixings as required by BS 8217 : 2005 must be observed.

9.2.7 For roof pitches over 5° the Ultra H-A Underlay must also be mechanically fastened in accordance with BS 8217 : 2005 or the Certificate holder specification document.

9.2.8 For partially bonded applications, a layer of IKO Perforated Underlay or Type 3G to BS 8747 : 2007, Annex C, is loose-laid over the substrate in accordance with BS 8217 : 2005, Sections 8.15.2 and 8.15.3.

9.2.9 IKO Ultra Underlay is bonded to the IKO Perforated Underlay or Type 3G layer in accordance with the Certificate holder's instructions.

9.2.10 Permaguard M Torch On is fully bonded to the underlay by torch and pressing the membrane down. Care must be taken not to overheat the coating. When torching the membranes, a bead of coating must exude from all lap joints. Side and end laps must be a minimum of 75 mm.

9.2.11 The perimeter areas must be fully bonded in bitumen.

9.2.12 For fully bonded applications, an IKO Ultra Underlay is bonded to the substrate in accordance with the Certificate holder's instructions.

9.2.13 Permaguard M Torch On is fully bonded to the underlay by torch and pressing the membrane down. Care must be taken not to overheat the coating. When torching the membranes, a bead of coating must exude from all lap joints. Side and end laps must be a minimum of 75 mm.

9.2.14 The NHBC requires that the systems, once installed, are inspected in accordance with *NHBC Standards* 2024 Chapter 7.1, Clause 7.1.11, including undergoing an appropriate integrity test, where required. Any damage to the systems assessed in this Certificate must be repaired in accordance with section 9.4 of this Certificate and reinspected, in order to maintain the systems performance.

9.3 Workmanship

Practicability of installation was assessed by the BBA, on the basis of the Certificate holder's information and BS 8217 : 2005. To achieve the performance described in this Certificate, installation of the systems must be installed by individuals trained and approved by the Certificate holder.

9.4 Maintenance and repair

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

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

9.4.3 The systems 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, to ensure continued satisfactory performance.

9.4.4 In the event of damage, the systems can be effectively repaired, after cleaning, with a patch of membrane bonded over the damaged area.

10 Manufacture

10.1 The production processes for the systems 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 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 systems are delivered to site in rolls taped together, with the securing tape bearing the Certificate holder's name 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 Rolls must be stored on end on a clean, level surface and not exposed to excessive heat.

ANNEX A – SUPPLEMENTARY INFORMATION

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

Supporting information in this Annex is relevant to the systems 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 systems components 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).

CE marking

The Certificate holder has taken the responsibility of CE marking the systems, 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).

Additional Guidance information on installation

A.1 When used for remedial work, existing waterproofing layers must be made sound and existing surface finishes (eg surface dressing) must be removed, and then primed.

A.2 Where applicable, details are to be worked in accordance with traditional methods advised by the Certificate holder.

A.3 The finished membrane requires no further surface protection.

Bibliography

BS 3177 : 1959 *Method for determining the permeability to water vapour of flexible sheet materials used for packing*

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

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

BS 8747 : 2007 *Reinforced bitumen membranes (RBMs) for roofing — Guide to selection and specification*

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 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 *Eurocode 1 — Actions on structures — General actions — Snow loads*
NA + A2 : 18 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 *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 date from reaction to fire tests*
BS EN 13501-5 : 2016 *Fire classification of construction products and building elements — Classification using data from external fire exposure to roof tests*

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

CEN/TS 1187 : 2012 *Test methods for external fire exposure to roofs*

EN 13707 : 2013 *Flexible sheets for waterproofing — Reinforced bitumen sheets for roof waterproofing — Definitions and characteristics*

MOAT 27 : 1983 *General Directive for the Assessment of Roof Waterproofing Systems*

MOAT 31 : 1984 *Special Directives for the Assessment of Reinforced Homogeneous Waterproof Coverings of Styrene-Butadiene-Styrene (SBS) Elastomer Bitumen*

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
- 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.

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.

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