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Agrément Certificate

15/5274

Product Sheet 2 Issue 4

WRAPTITE BREATHER MEMBRANE

FOR USE IN WALL AND FLOOR CONSTRUCTIONS

This Agrément Certificate Product Sheet⁽¹⁾ relates to Wraprite Breather Membrane for use in timber-frame (either factory or site applied), steel-frame and masonry wall constructions, with a cavity and a masonry outer leaf, weatherboarding, tile/slate cladding or closed rain-screen cladding systems and in modular floor cassette constructions.

(1) Hereinafter referred to as 'Certificate'.

The assessment includes

Product factors:

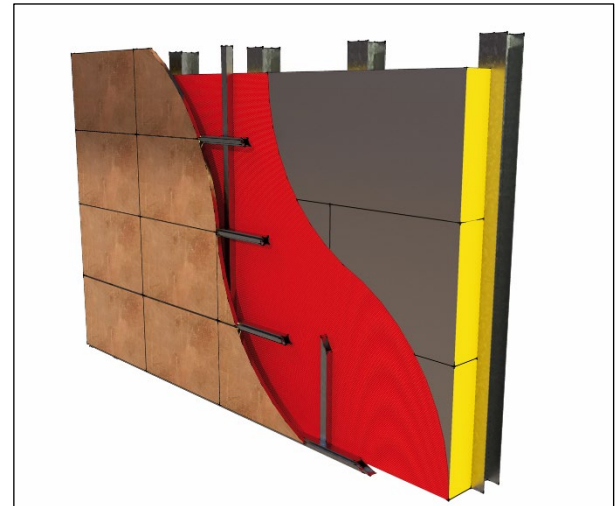
- compliance with Building Regulations
- compliance with additional regulatory or non-regulatory information where applicable
- evaluation against technical specifications
- assessment criteria and technical investigations
- uses and design considerations

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 product described herein. This product 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 Fourth issue: 2 May 2024

Originally certified on 16 November 2015

Certificate amended on 2 December 2024 to revise Table 2 and Table 6.

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 Wraptite Breather Membrane for use in wall and floor constructions, 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:	B3(4)	Internal fire spread (structure)
Comment:		The product can contribute to satisfying this Requirement. See section 2 of this Certificate.
Requirement:	B4(1)	External fire spread
Comment:		The product may be restricted by this Requirement. See section 2 of this Certificate.
Requirement:	C2(b)	Resistance to moisture
Comment:		The product will contribute to satisfying this Requirement. See section 3 of this Certificate.
Requirement:	C2(c)	Resistance to moisture
Comment:		The product can contribute to satisfying this Requirement. See section 3 of this Certificate.
Regulation:	7(1)	Materials and workmanship
Comment:		The product is acceptable. See sections 8 and 9 of this Certificate.



The Building (Scotland) Regulations 2004 (as amended)

Regulation:	8(1)	Fitness and durability of materials and workmanship
Comment:		The product can contribute to a construction satisfying this Regulation. See sections 8 and 9 of this Certificate.
Regulation:	9	Building standards - construction
Standard:	2.4	Cavities
Comment:		The product can contribute to satisfying this Standard with reference to clause 2.4.2 ⁽¹⁾⁽²⁾ . See section 2 of this Certificate.
Standard:	3.10	Precipitation
Comment:		The product will contribute to satisfying this Standard, with reference to clauses 3.10.1 ⁽¹⁾⁽²⁾ and 3.10.5 ⁽¹⁾⁽²⁾ . See section 3 of this Certificate.
Standard:	3.15	Condensation
Comment:		The product can contribute to satisfying this Standard, with reference to clauses 3.15.1 ⁽¹⁾⁽²⁾ and 3.15.4 ⁽¹⁾⁽²⁾ . See section 3 of this Certificate.
Standard:	7.1(a)	Statement of sustainability
Comment:		The product 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 - conversions
Comment:		Comments in relation to the product 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 product is acceptable. See sections 8 and 9 of this Certificate.
Regulation:	28(b)	Resistance to moisture and weather
Comment:		The product will contribute to satisfying this Regulation. See section 3 of this Certificate.
Regulation:	29	Condensation
Comment:		The product can contribute to satisfying this Regulation. See section 3 of this Certificate.
Regulation:	35(4)	Internal fire spread (structure)
Comment:		The product can contribute to satisfying this Requirement. See section 2 of this Certificate.
Regulation:	36(a)	External fire spread
Comment:		The product may be restricted by this Regulation. See section 2 of this Certificate.

Additional Information

NHBC Standards 2024

In the opinion of the BBA, Wraptite Breather Membrane for use in wall and floor constructions, if installed, used and maintained in accordance with this Certificate, can satisfy or contribute to satisfying the relevant requirements in relation to *NHBC Standards*, Chapters 6.1 *External masonry walls*, 6.2 *External timber framed walls*, 6.9 *Curtain walling and cladding* and 6.10 *Light steel framed walls and floors*.

Fulfilment of Requirements

The BBA has judged Wraptite Breather Membrane for use in wall and floor constructions to be satisfactory for use as described in this Certificate. The product has been assessed for use in timber-frame (either factory or site applied), steel-frame and masonry wall constructions, with a cavity and a masonry outer leaf, weatherboarding, tile/slate cladding or closed rain-screen cladding systems and in modular floor cassette constructions.

ASSESSMENT

Product description and intended use

The Certificate holder provided the following description for the product under assessment. Wraptite Breather Membrane for use in wall and floor constructions is a self-adhesive membrane consisting of a triple-layer polypropylene micro-porous film laminate, with a proprietary acrylic moisture adhesive and silicon-coated polyethylene terephthalate (PET) release liner.

The product has the nominal characteristics given in Table 1.

Table 1 Nominal characteristics of Wraptite Breather Membrane

Characteristic (unit)	Value
Thickness (mm)	0.65
Mass per unit area (g·m ⁻²)	292
Roll length (m)	50
Roll width (m)	1.5
Roll weight (kg)	24
Colour	
upper face	Red
lower face	White

Ancillary Items

The Certificate holder recommends Wraptite Tape, but this material has not been assessed by the BBA and is outside the scope of this Certificate.

Applications

Wraptite Breather Membrane for use in wall and floor constructions is satisfactory for use as on-site or factory-applied breather membrane in timber-, steel- and concrete-frame walls with a cavity and a masonry outer leaf, weatherboarding, tile/slate cladding or behind closed rain-screen cladding applications. It is also suitable for use in modular floor cassette constructions.

The product must be used over suitable sheathing boards.

Definitions for products and applications inspected

In the absence of other guidance, suitable timber-, steel- and concrete-frame walls are defined as those designed and built in accordance with *NHBC Standards 2023*, Chapters 6.1, 6.2, 6.9 and 6.10.

Product assessment – key factors

The product was 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

Data were assessed for the following characteristics.

1.1 Resistance to mechanical damage

1.1.1 Results of resistance to mechanical damage tests are given in Table 2.

Table 2 Results of mechanical damage tests

Product assessed	Assessment method	Requirement	Result
Wraptite Breather Membrane	Nail tear to BS EN 12310-1 : 2000	≥ 50 N	
	Longitudinal direction		Pass
	Transverse direction		Pass

1.1.2 On the basis of data assessed, the product has adequate strength to resist the loads associated with installation.

2 Safety in case of fire

Data were assessed for the following characteristics.

2.1 Reaction to fire

2.1.1 Results of Reaction to fire test are given in Table 3.

Table 3 Results of Reaction to fire test

Product assessed	Assessment method	Requirement	Result
Wraptite Breather Membrane	BS EN 13501-1 : 2007 tested self-adhered to 12 mm calcium silicate board	Value achieved	Class B-s1, d0 ⁽¹⁾
	BS EN 13501-1 : 2007 tested self-adhered to fibre cement board	Value achieved	Class B-s1, d0 ⁽²⁾
	BS EN 13501-1 : 2018 tested self-adhered to magnesium oxide board	Value achieved	Class B-s1, d0 ⁽³⁾
	BS EN 13501-1 : 2018 tested self-adhered to OBEX – Cortex 0270 Class A1 Score ‘N’ Snap cement board – surface exposure only	Value achieved	Class B-s1, d0 ⁽⁴⁾

(1) Report reference 27/04289/07/17, issued by BTTG. Report is available from the Certificate holder upon request.

(2) Report reference 27/04659B/06/18 issued by BTTG. Report is available from the Certificate holder upon request.

(3) Report reference 27/05727/10/21 issued by BTTG. Report is available from the Certificate holder upon request.

(4) Report reference 27/05962A/09/22 issued by BTTG. Report is available from the Certificate holder upon request.

2.1.2 The construction as given in Table 3 will be unrestricted in use in terms of height and proximity to a relevant boundary by the documents supporting the national Building Regulations.

2.1.3 Where required, the performance of the product when applied over other substrates must be established in accordance with the requirements of the documents supporting the national Building Regulations.

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

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 4.

Table 4 Weathertightness

Product assessed	Assessment method	Requirement	Result
Wraptite Breather Membrane	Watertightness of seams to BS EN 13859-1 : 2014 Annex F at 2 kPa	No leakage	Pass
	Water resistance to BS EN 1928 : 2000 Method A	No leakage	Pass
	Hydrostatic pressure to BS EN 20811 : 1992	≥ 1 m	Pass

3.1.2 On the basis of data assessed, the product is Class W1 in accordance with BS EN 13859-2 : 2014 and will resist liquid water penetration and wind-blown snow and protect the sheathing and frame from external moisture.

3.1.3 The product satisfies the NHBC requirement given in *NHBC Standards 2023*, Chapter 6.2, for use in very severe conditions⁽¹⁾.

(1) Very severe conditions are defined in the *NHBC Standards 2023*, Chapter 6.1.6 see Exposure Zones map, showing categories of exposure to wind-driven rain.

3.1.4 The product resists penetration of liquid water and consequently can be used as temporary weather protection during construction, prior to the completion of external brickwork or claddings. The period of such use must, however, be kept to a minimum. Advice must be sought from the Certificate holder, but such advice is outside of the scope of this Certificate.

3.2 Condensation

3.2.1 Results of water vapour resistance tests are given in Table 5.

Table 5 Water Vapour Resistance

Product assessed	Assessment method	Requirement	Result
Wraptite Breather Membrane	Water vapour transmission properties to BS EN ISO 12572 : 2001 (s_d)	Value achieved	0.039 ⁽¹⁾

(1) Water vapour resistance may be taken as 5 x s_d value.

3.2.2 On the basis of the data assessed the product's water vapour resistance is less than or equal to 0.6 MN·s·g⁻¹, and it is classified as a breather membrane in accordance with BS 5250 : 2021. It will, therefore, contribute towards minimising the risk of interstitial condensation in walls and floors designed and constructed in accordance with BS 5250 : 2021.

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 product were assessed.

8.2 Specific test data were assessed as given in Table 6.

Table 6 Results of durability tests				
Product assessed	Assessment method	Requirement	Result	
Wraptite Breather Membrane	Dimensional stability to BS EN 1107-2: 2001	≤ 2%		
	Longitudinal		Pass	
	Transverse		Pass	
	Flexibility at low temperature	-40°C		Pass
	Tensile strength to BS EN 12311-1 : 2000	Declared values		
	- Control			
	Longitudinal direction	≥ 417 N ·(50mm) ⁻¹		Pass
	Transverse direction	≥ 252 N ·(50mm) ⁻¹		Pass
	Elongation to BS EN 12311-1 : 2000	Values achieved		
	- Control			
	Longitudinal direction			77%
	Transverse direction			99%
	Tensile strength to BS EN 12311-1 : 2000 336 hours UVA at 50°C followed by 90 days heat ageing at 70°C	Change < 30%		
	Longitudinal direction			Pass
	Transverse direction			Pass
Elongation to BS EN 12311-1 : 2000 336 hours UVA at 50°C followed by 90 days heat ageing at 70°C	No significant loss of properties following ageing			
Longitudinal direction			Pass	
Transverse direction			Pass	
Resistance to water penetration to BS EN 1928 : 2000 aged 336 hours UVA at 50°C followed by 90 days heat ageing at 70°C	No leakage		Pass	

8.3 Service life

8.3.1 Under normal service conditions, the product will have a life equivalent to the structure in which it is incorporated, provided it is not exposed to sunlight for long periods, and it is designed, installed and maintained in accordance with this Certificate and the Certificate holder's instructions.

8.3.2 The exposure of the product period prior to installation of the external cladding must be kept to a minimum. Advice must be sought from the Certificate holder, but such advice is outside the scope of this Certificate.

PROCESS ASSESSMENT

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

9 Design, installation, workmanship and maintenance

9.1 Installation

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

9.1.2 The product must be installed in accordance with the Certificate holder's instructions, the provisions of this Certificate and the recommendations given in *NHBC Standards 2023*, Chapters 6.1, 6.2, 6.9 and 6.10, where appropriate. A summary of instructions and guidance is provided in Annex A of this Certificate.

9.1.3 The product can be damaged by high winds, careless handling or vandalism and must not be left exposed for longer than is necessary.

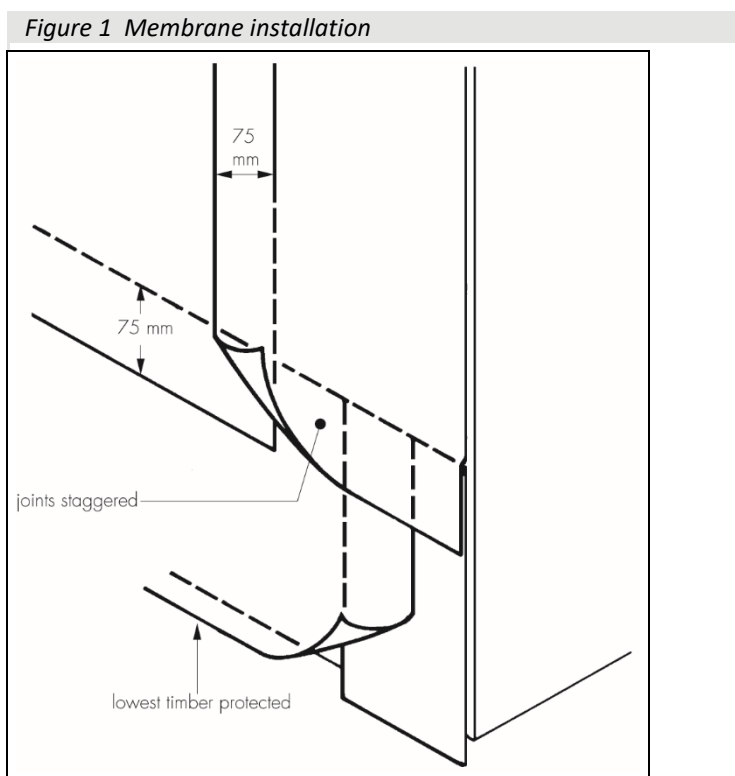
9.1.4 Installation can be carried out under all conditions normal to construction works. The minimum air and surface temperature at which installation can take place is -10°C.

9.1.5 The substrate must be clean, dry and free from contaminants, sharp protrusions, or other matter that may hinder the adhesion of the membrane installation. Any loose dust or dirt must be removed by wiping with a dry cloth or by brushing.

Walls

9.1.6 The products must be fixed with the red side outer-face, in such a way as to shed water away from the sheathing, and below the lowest timber. Upper layers must be lapped over lower layers.

9.1.7 Vertical and horizontal laps must be at least 75 mm. Vertical laps must be staggered wherever possible (see Figure 1).



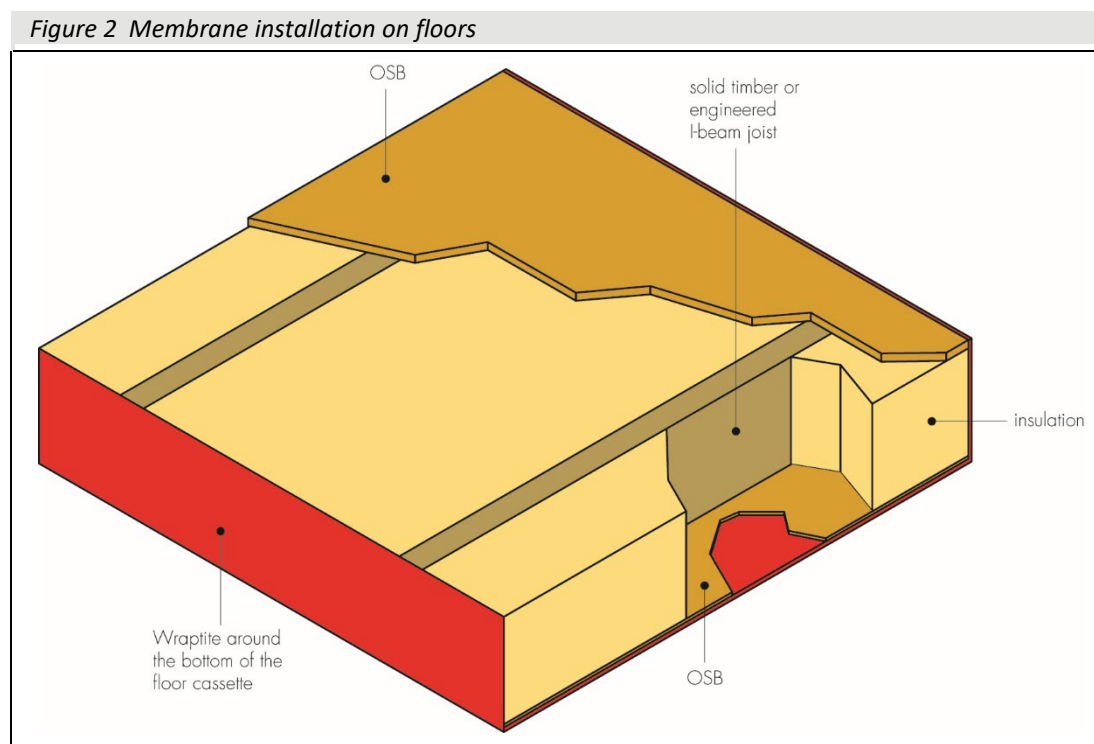
9.1.8 It is essential that the positions of studs are marked to enable wall tie fixing.

9.1.9 It is essential that the lowest timbers in the wall are protected by the membrane.

Floors

9.1.12 The product is installed continuously to the underside of the floor cassette and brought up the edges with minimum 75 mm overlaps.

9.1.13 Wraptite Tape is then used to seal any junctions between the wall/floor (see Figure 2).



9.3 Workmanship

Practicability of installation was assessed by the BBA, on the basis of the Certificate holder's information. To achieve the performance described in this Certificate, the product must be installed by a competent general builder, or a contractor, experienced with this type of product.

9.4 Maintenance and repair

9.4.1 As the product is confined within the wall or floor and has suitable durability, maintenance is not required. However, any damage occurring before enclosure must be repaired.

9.4.2 Damage to the product must be repaired prior to the installation of external walls/floors or cladding, by laying another sheet over the damaged area and by patching and sealing correctly, ensuring that water is shed away from the sheathing.

10 Manufacture

10.1 The production processes for the product 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.

10.5 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 product is delivered to site in rolls individually wrapped in polyethene with a label bearing 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 flat or on end, on a smooth, clean, dry surface, under cover and protected from sunlight.

Supporting information in this Annex is relevant to the product 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.

UKCA marking

The Certificate holder has taken the responsibility of UKCA marking the product in accordance with Designated Standard EN 13859-2 : 2010.

CE marking

The Certificate holder has taken the responsibility of CE marking the product, in accordance with harmonised European Standard EN 13859-2 : 2010.

Management Systems Certification for production

The management system of the manufacturer has been assessed and registered as meeting the requirements of ISO 9001 : 2015 by Japan Chemical Quality Assurance Ltd (Certificate JCQA-0653).

Additional information on installation

Condensation

A.1 The risk of condensation occurring within the wall of a timber-frame building will depend upon the properties and vapour resistance of other materials used in the construction, the internal and external conditions and the effectiveness of the internal vapour control layer.

A.2 The product is installed from the original packaging which functions as a dispenser. The membrane is applied by peeling back the release paper by approximately 150 mm. The release paper is folded back and, using a hand roller or a stiff brush, the glue surface is lightly applied to the prepared substrate.

A.3 The hand roller or stiff brush is used to smooth out any air bubbles, releasing any trapped air. Curing time is approximately six hours. Time for full adhesion may vary depending on local conditions.

Bibliography

- BS 3177 : 1959 *Method for determining the permeability to water vapour of flexible sheet materials used for packaging*
- BS 5250 : 2021 *Management of moisture in buildings — Code of practice*
- BS EN 1107-2 : 2001 *Flexible sheets for waterproofing — Determination of dimensional stability — Part 2: Plastic and rubber sheets for roof waterproofing*
- BS EN 1928 : 2000 *Flexible sheets for waterproofing — bitumen, plastic and rubber sheets for roof waterproofing — determination of watertightness*
- BS EN 12311-1 : 2000 *Flexible sheets for waterproofing — Determination of tensile properties — Bitumen sheets for roof waterproofing*
- BS EN 13501-1 : 2007 + A1 : 2009 *Fire classification of construction products and building elements — Classification using data from reaction to fire tests*
- BS EN 13501-1 : 2018 *Fire classification of construction products and building elements — Classification using data from reaction to fire tests*
- BS EN 13823 : 2010 *Reaction to fire tests for building products — Building products excluding floorings exposed to the thermal attack by a single burning item*
- BS EN 13859-2 : 2014 *Flexible sheets for waterproofing — Definitions and characteristics of underlays-Underlays for walls*
- BS EN 20811 : 1992 *Textiles — Determination Of Resistance To Water Penetration. Hydrostatic Pressure Test*
- BS EN ISO 12572 : 2001 *Hygrothermal performance of building materials and products — Determination of water vapour transmission properties*
- EN 12310-1 : 2000 *Flexible sheets for waterproofing — Part 1: Bitumen sheets for waterproofing — Determination of resistance to tearing (nail shank)*
- EN 13859-2 : 2010 *Flexible sheets for waterproofing — Definitions and characteristics of underlays — Underlays for walls*
- ISO 9001 : 2015 *International Standard for Quality Management Systems*
- MOAT 69 : 2004 *UEAtc Technical Report for the Assessment of Discontinuous Roofing Underlay Systems*

Conditions of Certificate

Conditions

1 This Certificate:

- relates only to the product that is named and described on the front page
- is issued only to the company, firm, organisation or person named on the front page – no other company, firm, organisation or person may hold or claim that this Certificate has been issued to them
- 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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