

## Don & Low Ltd

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**Agrément Certificate**

**03/4003**

Product Sheet 3 Issue 7

## DON & LOW MEMBRANES

### BREATHABLE ROOFTX FOR USE IN TIMBER FRAME CONSTRUCTION

This Agrément Certificate Product Sheet<sup>(1)</sup> relates to Breathable RoofTX<sup>(2)</sup> for use in timber frame construction, breather membranes for use in external walls with a cavity and a masonry outer leaf, weatherboarding or tile/slate cladding.

(1) Hereinafter referred to as 'Certificate'.

(2) RoofTX is a registered trademark of Don & Low Ltd.

#### The assessment includes

##### Product factors:

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

##### Process factors:

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

##### Ongoing contractual Scheme elements†:

- regular assessment of production
- formal 3-yearly review



#### KEY FACTORS ASSESSED

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

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

On behalf of the British Board of Agrément

Date of Seventh issue: 1 May 2024  
Originally certificated on 9 October 2009

*Certificate amended on 5 December 2024 to change Certificate issue date.*

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 Breathable RoofTX for use in timber frame construction, 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)

<b>Requirement:</b>	<b>B3(4)</b>	<b>Internal fire spread</b>
Comment:		The products can contribute to satisfying this Requirement. See section 2 of this Certificate.
<b>Requirement:</b>	<b>B4(1)</b>	<b>External fire spread</b>
Comment:		The products are restricted by this Requirement See section 2 of this Certificate.
<b>Requirement:</b>	<b>C2(b)</b>	<b>Resistance to moisture</b>
Comment:		The products will contribute to satisfying this Requirement. See section 3 of this Certificate.
<b>Requirement:</b>	<b>C2(c)</b>	<b>Resistance to moisture</b>
Comment:		The products can contribute to satisfying this Requirement. See section 3 of this Certificate.
<b>Regulation:</b>	<b>7(1)</b>	<b>Materials and workmanship</b>
Comment:		The products are acceptable. See sections 8 and 9 of this Certificate.



#### The Building (Scotland) Regulations 2004 (as amended)

<b>Regulation:</b>	<b>8(1)</b>	<b>Fitness and durability of materials and workmanship</b>
Comment:		The products can contribute to a construction satisfying this Regulation. See sections 8 and 9 of this Certificate.
<b>Regulation:</b>	<b>9</b>	<b>Building standards - construction</b>
Standard:	2.4	Cavities
Comment:		The products can contribute to satisfying this Standard with respect to clause 2.4.2 <sup>(1)(2)</sup> . See section 2 of this Certificate.
Standard:	3.10	Precipitation
Comment:		The products will contribute to satisfying this Standard, with reference to clauses 3.10.1 <sup>(1)(2)</sup> and 3.10.8 <sup>(1)(2)</sup> . See section 3 of this Certificate.
Standard:	3.15	Condensation
Comment:		The products can contribute to satisfying this Standard, with reference to clauses 3.15.1 <sup>(1)(2)</sup> , 3.15.3 <sup>(1)(2)</sup> and 3.15.7 <sup>(1)(2)</sup> . See section 3 of this Certificate.
Standard:	7.1(a)	Statement of sustainability
Comment:		The products can contribute to meeting the relevant requirements of Regulation 9, Standards 1 to 6 and therefore will contribute to a construction meeting a bronze level of sustainability as defined in this Standard.

<b>Regulation:</b>	<b>12</b>	<b>Building standards - conversion</b>
<b>Comment:</b>		Comments in relation to the products under Regulation 9, Standards 1 to 6, also apply to this Regulation, with reference to clause 0.12.1 <sup>(1)(2)</sup> and Schedule 6 <sup>(1)(2)</sup> .
		(1) Technical Handbook (Domestic). (2) Technical Handbook (Non-Domestic).



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

<b>Regulation:</b>	<b>23(1)(a)(i)</b>	<b>Fitness of materials and workmanship</b>
<b>Comment:</b>	<b>(iii)(b)(i)</b>	The products are acceptable. See sections 8 and 9 of this Certificate.
<b>Regulation:</b>	<b>28(b)</b>	<b>Resistance to moisture and weather</b>
<b>Comment:</b>		The products will contribute to a construction satisfying this Regulation. See section 3 of this Certificate.
<b>Regulation:</b>	<b>29</b>	<b>Condensation</b>
<b>Comment:</b>		The products can enable a construction to satisfy this Regulation. See section 3 of this Certificate.
<b>Regulation:</b>	<b>35(4)</b>	<b>Internal fire spread – structure</b>
<b>Comment:</b>		The products can contribute to satisfying this Regulation. See section 2 of this Certificate.
<b>Regulation:</b>	<b>36(a)</b>	<b>External fire spread</b>
<b>Comment:</b>		The products are restricted by this Regulation. See section 2 of this Certificate.

## Additional Information

### NHBC Standards 2024

In the opinion of the BBA, Breathable RoofTX for use in timber frame construction, 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* and 6.2 *External timber framed walls*.

## Fulfilment of Requirements

The BBA has judged Breathable RoofTX for use in timber frame construction, to be satisfactory for use as described in this Certificate. The products have been assessed as breather membranes for use in walls of timber-frame constructions with a cavity and a masonry outer leaf, weatherboarding or tile/slate cladding.

## ASSESSMENT

### Product description and intended use

The Certificate holder provided the following description for the products under assessment. Breathable RoofTX for use in timber frame construction are composite structures, comprising water-vapour permeable film and two layers of nonwoven polypropylene fabrics.

The Conseal range of products are available with integrated tapes for sealing overlaps and in a range of colours.

The products have the nominal characteristics given in Table 1.

**Table 1 Nominal characteristics**

Characteristic (unit)	RoofTX Optima/Conseal	RoofTX Prime/Conseal	RoofTX Ultra/Conseal	RoofTX 125/Conseal	Roof TX Pro/Conseal	RoofTX Maxi/Conseal	RoofTX Extra/Conseal
Thickness (mm)	0.35	0.40	0.40	0.50	0.6	0.6	0.9
Mass per unit area (g·m <sup>-2</sup> )	92	102	112	125	150	170	230
Roll length (m)	50	50	50	50	50	50	50
Roll width (m)	1.0/1.5 <sup>(1)</sup>	1.0/1.5 <sup>(1)</sup>	1.0/1.5 <sup>(1)</sup>	1.0/1.5 <sup>(1)</sup>	1.0/1.5 <sup>(1)</sup>	1.0/1.5 <sup>(1)</sup>	1.0/1.5 <sup>(1)</sup>

(1) Other widths are available on request.

Definitions for products and applications inspected

In the absence of other guidance, suitable timber-frame constructions are defined as those designed and built in accordance with *NHBC Standards 2024*, Chapter 6.2.

**Product assessment – key factors**

The products 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**

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
RoofTX Optima/Conseal	Tear resistance to BS EN 12310-1 : 2000 with modifications as per	≥50 N	Pass
RoofTX Prime/Conseal			Pass
RoofTX Ultra/Conseal	BS EN 13859-1 : 2014 Annex B		Pass
RoofTX 125/Conseal			longitudinal direction
Roof TX Pro/Conseal	transverse direction		Pass
RoofTX Maxi/Conseal			Pass
RoofTX Extra/Conseal			Pass

1.1.2 On the basis of data assessed, the products have adequate strength to resist the loads associated with construction and installation.

**2 Safety in case of fire**

Data were assessed for the following characteristics.

2.1 Reaction to fire

2.1.1 The results of reaction to fire tests are given in Table 3.

**Table 3 Result of reaction to fire test**

Product assessed	Assessment method	Requirement	Result
RoofTX Optima/Conseal <sup>(1)(8)</sup>	Reaction to fire tested to	Value achieved	E,d2
RoofTX Prime/Conseal <sup>(2)(8)</sup>	BS EN ISO 11925-2 : 2010		E,d2
RoofTX Ultra/Conseal <sup>(3)(8)</sup>	and classified to BS EN 13501-1 : 2007		E
RoofTX 125/Conseal <sup>(4)(8)</sup>			E
Roof TX Pro/Conseal <sup>(5)(8)</sup>			E
RoofTX Maxi/Conseal <sup>(6)(8)</sup>			E
RoofTX Extra/Conseal <sup>(7)(8)</sup>			E,d2

(1) Test Report reference 27/04716A/08/18 issued by BTTG. The report is available from the Certificate holder on request.

(2) Test Report reference 27/04840B/11/18 issued by BTTG. The report is available from the Certificate holder on request.

(3) Test Report reference 27/04386A/10/17 issued by BTTG. The report is available from the Certificate holder on request.

(4) Test Report reference 27/04716C/08/18 issued by BTTG. The report is available from the Certificate holder on request.

(5) Test Report reference 27/06129C/04/23 issued by BTTG. The report is available from the Certificate holder on request.

(6) Test Report reference 27/06275/10/23 issued by BTTG. The report is available from the Certificate holder on request.

(7) Test Report reference 27/04890C/01/19 issued by BTTG. The report is available from the Certificate holder on request.

(8) The specimens were tested unsupported with no backing board.

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

2.1.3 In England, the products, 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.

2.1.4 In Wales and Northern Ireland, the products, when used in roof pitches greater than 70°, excluding upstands, must not be used less than 1 m from a relevant boundary, or on other buildings more than 18 m in height or in some cases, on assembly and recreation buildings. These constructions must also be included in calculations of unprotected area.

2.1.5 In Scotland, the use of the products is unrestricted in terms of 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 built - up system, which must be established on a case-by-case basis.

2.1.6 Designers must refer to the relevant national Building Regulations and guidance for detailed conditions of use, particularly in respect of requirements for substrate fire performance, cavity 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 test result**

Product assessed	Assessment method	Requirement	Result
RoofTX Optima/Conseal	Resistance to water penetration to	No leakage	Pass
RoofTX Prime/Conseal	BS EN 1928 : 2000 with modifications as per		Pass
RoofTX Ultra/Conseal	BS EN 13859-1 : 2014 Annex A		Pass
RoofTX 125/Conseal			Pass
RoofTX Maxi/Conseal			Pass
RoofTX Extra/Conseal			Pass

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

3.1.3 The products meet the NHBC requirement given in *NHBC Standards 2024*, Chapter 6.2, for use in very severe conditions<sup>(1)</sup>.

(1) Very severe conditions are defined in the *NHBC Standards 2024*, Chapter 6.1, Clause 6.1.6 *Exposure* (see Figure 1 showing categories of exposure to wind-driven rain).

3.1.4 The products resist 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 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 test result*

Product assessed	Assessment method	Requirement	Result
RoofTX 125/Conseal	Water vapour transmission properties to	Declared value	Pass
RoofTX Extra/Conseal	BS EN ISO 12572 : 2001	$S_d = 0.029 \text{ m (+/- 0.01)}^{(1)}$	Pass

(1) Water vapour resistance, in  $\text{MN}\cdot\text{s}\cdot\text{g}^{-1}$ , may be taken as  $5 \times s_d$  value.

3.2.2 A condensation risk analysis was carried out based on the result given in Table 5 and satisfactory conclusions were drawn.

3.2.3 The products' water vapour resistance is less than or equal to  $0.6 \text{ MN}\cdot\text{s}\cdot\text{g}^{-1}$ , and they are classified as breather membranes in accordance with BS 5250 : 2021. They will, therefore, contribute towards minimising the risk of interstitial condensation in walls 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

The products contain polyolefins, which can be recycled.

## 8 Durability

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

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

Table 6 Results of durability tests

Product assessed	Assessment method	Requirement	Result
	Tensile strength to	Declared values	
RoofTX Optima/Conseal	EN 12311-1 : 2000 with modifications as per	230 (-50) N·(50 mm) <sup>-1</sup>	Pass
RoofTX Prime/Conseal	BS EN 13859-1 : 2014 Annex A	250 (-50) N·(50 mm) <sup>-1</sup>	Pass
RoofTX Ultra/Conseal	- control	260(-50) N·(50 mm) <sup>-1</sup>	Pass
RoofTX 125/Conseal	longitudinal direction	285 (-65) N·(50 mm) <sup>-1</sup>	Pass
Roof TX Pro/Conseal		325 (-70) N·(50 mm) <sup>-1</sup>	Pass
RoofTX Maxi/Conseal		400 (-80) N·(50 mm) <sup>-1</sup>	Pass
RoofTX Extra/Conseal		470 (-80) N·(50 mm) <sup>-1</sup>	Pass
	Tensile strength to EN 12311-1 : 2000	Declared values	
RoofTX Optima/Conseal	with modifications as per	125 (-30) N·(50 mm) <sup>-1</sup>	Pass
RoofTX Prime/Conseal	BS EN 13859-1 : 2014 Annex A	140 (-40) N·(50 mm) <sup>-1</sup>	Pass
RoofTX Ultra/Conseal	- control	150 (-35) N·(50 mm) <sup>-1</sup>	Pass
RoofTX 125/Conseal	transverse direction	165 (-45) N·(50 mm) <sup>-1</sup>	Pass
Roof TX Pro/Conseal		295 (-50) N·(50 mm) <sup>-1</sup>	Pass
RoofTX Maxi/Conseal		260 (-50) N·(50 mm) <sup>-1</sup>	Pass
RoofTX Extra/Conseal		300 (-60) N·(50 mm) <sup>-1</sup>	Pass
	Tensile strength to EN 12311-1 : 2000	Change < 30%	
RoofTX Optima/Conseal	with modifications as per		Pass
RoofTX Prime/Conseal	BS EN 13859-1 : 2014 Annex A and C		Pass
RoofTX Ultra/Conseal	longitudinal direction		Pass
RoofTX 125/Conseal	transverse direction		Pass
RoofTX Maxi/Conseal			Pass
RoofTX Extra/Conseal			Pass
	Elongation to EN 12311-1 : 2000 with	Declared values	
RoofTX Optima/Conseal	modifications as per BS EN 13859-1: 2014	65 (-20) %	Pass
RoofTX Prime/Conseal	Annex A	60 (-20) %	Pass
RoofTX Ultra/Conseal	- control	80 (-16) %	Pass
RoofTX 125/Conseal	longitudinal direction	70 (-16) %	Pass
Roof TX Pro/Conseal		50 (-20) %	Pass
RoofTX Maxi/Conseal		80 (-20) %	Pass
RoofTX Extra/Conseal		70 (-20) %	Pass
	Elongation to EN 12311-1 : 2000 with	Declared values	
RoofTX Optima/ Conseal	modifications as per BS EN 13859-1 : 2014	70 (-22) %	Pass
RoofTX Prime / Conseal	Annex A	70 (-20) %	Pass
RoofTX Ultra/Conseal	- control	90 (-18) %	Pass
RoofTX 125/Conseal	transverse direction	90 (-18) %	Pass
Roof TX Pro/Conseal		85 (-22) %	Pass
RoofTX Maxi/Conseal		100 (-22) %	Pass
RoofTX Extra/Conseal		100 (-20) %	Pass
	Elongation to EN 12311-1 : 2000 with	Declared values	
RoofTX Optima/Conseal	modifications as per BS EN 13859-1 : 2014	35 (-20) %	Pass
RoofTX Prime/Conseal	Annex A and C	40 (-20) %	Pass
RoofTX Ultra/Conseal	- longitudinal direction	42 (-8) %	Pass
RoofTX 125/Conseal		30 (-20) %	Pass
RoofTX Maxi/Conseal		65 (-20) %	Pass
RoofTX Extra/Conseal		40 (-20) %	Pass
	Elongation to	Declared values	
RoofTX Optima/Conseal	EN 12311-1 : 2000 with modifications as per	40 (-22) %	Pass
RoofTX Prime/Conseal	BS EN 13859-1: 2014 Annex A and Annex C	50(-20) %	Pass
RoofTX Ultra/Conseal	- transverse direction	72 (-14) %	Pass
RoofTX 125/Conseal		40 (-20) %	Pass
RoofTX Maxi/Conseal		80 (-22) %	Pass
RoofTX Extra/Conseal		50 (-20) %	Pass

**Table 6 Results of durability tests (continued)**

Product assessed	Assessment method	Requirement	Result
	Resistance to water penetration to	No evidence of water	
RoofTX Optima/Conseal	EN 1928 : 2000 with modifications as per	leakage	Pass
RoofTX Prime/Conseal	BS EN 13859-1 : 2014 Annex A and C		Pass
RoofTX Ultra/Conseal			Pass
RoofTX 125/ Conseal			Pass
RoofTX Maxi/Conseal			Pass
RoofTX Extra/Conseal			Pass
	Low Temperature flexibility	Declared values	
	to EN 1109 : 2000	-60°C	Pass
RoofTX 125/ Conseal		-40°C	Pass
RoofTX Extra/ Conseal			
RoofTX Extra/ Conseal	Dimensional stability to EN 1107-2 : 2001	≤2 %	
	longitudinal direction		Pass
	transverse direction		Pass

### 8.3 Service life

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

8.3.2 The exposure of the products 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.

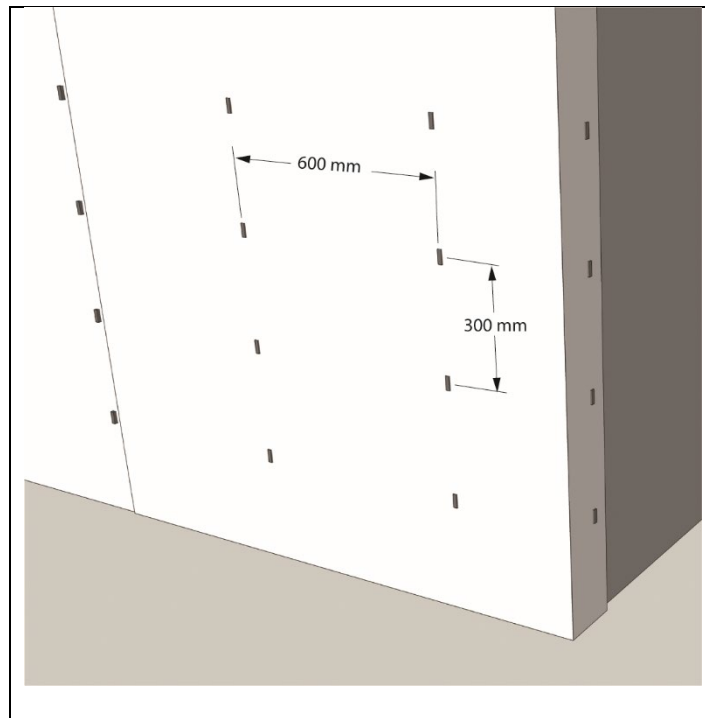
9.1.2 The products must be installed in accordance with the Certificate holder’s instructions, the provisions of this Certificate and the recommendations given in *NHBC Standards 2024*, Chapter 6.2, where appropriate. A summary of instructions and guidance is provided in Annex A of this Certificate.

9.1.3 The products must be fixed 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.

9.1.4 Upper layers must overlap lower layers to shed water away from the sheathing. Vertical laps must be staggered wherever possible (see Figure 1).



Figure 1 Membrane installation — fixing distances



9.1.5 Horizontal laps must be at least 100 mm and vertical laps 150 mm.

9.1.6 The products must be secured at regular intervals with nails and staples to prevent damage by wind.

9.1.7 Nails must be of galvanized or sherardized mild steel, austenitic stainless steel, phosphor bronze or silicon bronze; staples must be of austenitic stainless steel.

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

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

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

### 9.3 Workmanship

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

### 9.4 Maintenance and repair

9.4.1 As the products are confined within the wall space and have suitable durability, maintenance is not required.

9.4.2 Damage to the products can be repaired prior to the installation of external walls or claddings, by laying another sheet over the damaged areas or 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.

10.1.5 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 rolls are delivered to site individually wrapped in polythene. A technical leaflet bearing the products name and the BBA logo incorporating the number of this Certificate is included with each roll.

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 on a clean, level surface, under cover and protected from sunlight.

## ANNEX A – SUPPLEMENTARY INFORMATION †

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

### Construction (Design and Management) Regulations 2015

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

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

### UKCA marking

The Certificate holder has taken the responsibility of UKCA marking the products in accordance with Designated Standard EN 13859-2 : 2014.

### CE marking

The Certificate holder has taken the responsibility of CE marking the product in accordance with harmonised European Standard EN 13859-2 : 2014.

### 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 FM 45536).

### 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 Convective water vapour transfer into the wall construction can be reduced by installing a vapour control layer/air barrier behind the internal lining.

## Bibliography

BS 5250 : 2021 *Management of moisture in buildings — Code of practice*

BS EN 1928 : 2000 *Flexible sheets for waterproofing — Bitumen, plastic and rubber sheets for roof waterproofing — Determination of watertightness*

BS EN 13501-1 : 2007 +A1 :2009 *Fire classification of construction products and building elements — Classification using test data from reaction to fire tests*

BS EN 13859-1 : 2014 *Flexible sheets for waterproofing — Definitions and characteristics of underlays — Underlays for discontinuous roofing*

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

BS EN ISO 11925-2 : 2010 *Reaction to fire tests — Ignitability of products subjected to direct impingement of flame — Single-flame source test*

BS EN ISO 12572 : 2001 *Hygrothermal performance of building materials and product — Determination of water vapour transmission properties — Cup method*

EN 1109 : 2000 *Flexible sheets for waterproofing. Bitumen sheets for roof waterproofing. Determination of flexibility at low temperature*

EN 12311-1 : 2000 *Flexible sheets for waterproofing — Determination of tensile properties — Bitumen sheets for roof waterproofing*

BS EN 1107-2 : 2001 *Flexible sheets for waterproofing — Determination of dimensional stability — Plastic and rubber sheets for roof waterproofing*

EN 12310-1 : 2000 *Flexible sheets for waterproofing — Determination of resistance to tearing (nail shank) — Bitumen sheets for roof waterproofing*

EN 12311-1 : 1999 *Flexible sheets for waterproofing — Determination of tensile properties — Bitumen sheets for roof waterproofing*

EN 13859-2 : 2014 *Flexible sheets for waterproofing — Definitions and characteristics of underlays — Underlays for walls*

### 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.