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## Agrément Certificate

99/3622

Product Sheet 4 Issue 1

### PERMO ROOF TILE UNDERLAYS

#### PERMO ULTRA 120 FOR USE IN COLD VENTILATED AND WARM NON-VENTILATED ROOFS

This Agrément Certificate Product Sheet<sup>(1)</sup> relates to Permo Ultra 120 for use in cold ventilated and warm non-ventilated roofs of up to 70° pitch, in domestic and non-domestic buildings.

(1) Hereinafter referred to as 'Certificate'.

#### The assessment includes

##### Product factors:

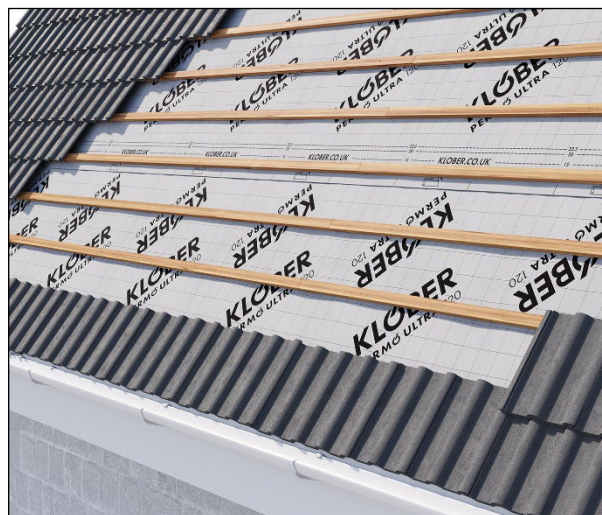
- compliance with Building Regulations
- compliance with additional regulatory or non-regulatory information where applicable
- evaluation against technical specifications
- assessment criteria and technical investigations
- uses and design considerations

##### 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 issue: 25 November 2025

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 Permo Ultra 120 for use in cold ventilated and warm non-ventilated roofs, 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 (structure)</b>
Comment:		The product can contribute to satisfying this Requirement. See section 2 of this Certificate.
<b>Requirement:</b>	<b>C2(b)</b>	<b>Resistance to moisture</b>
Comment:		The product 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 product 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 product is 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 product can contribute to 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 product can contribute to satisfying this Standard, with reference to clause 2.4.2 <sup>(1)(2)</sup> . 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 <sup>(1)(2)</sup> and 3.10.8 <sup>(1)(2)</sup> . 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 <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 product 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.
<b>Regulation:</b>	<b>12</b>	<b>Building standards – conversion</b>
Comment:		All comments given for the product 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 product is 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 product will contribute to satisfying this Regulation. See section 3 of this Certificate.
<b>Regulation:</b>	<b>29</b>	<b>Condensation</b>
<b>Comment:</b>		The product can contribute to satisfying 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 product can contribute to satisfying this Regulation. See section 2 of this Certificate.

### Additional Information

#### NHBC Standards 2025

In the opinion of the BBA, Permo Ultra 120 for use in cold ventilated and warm non-ventilated roofs, 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 7.2 *Pitched 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 Permo Ultra 120 for use in cold ventilated and warm non-ventilated roofs to be satisfactory for use as described in this Certificate. The product has been assessed for use in roofs of up to 70° pitch, in domestic and non-domestic buildings.

### ASSESSMENT

#### Product description and intended use

The Certificate holder provided the following description for the product under assessment. Permo Ultra 120 for use in cold ventilated and warm non-ventilated roofs is a three-layer vapour permeable underlay.

The product has the nominal characteristics given in Table 1.

Table 1 Nominal characteristics

Characteristic (unit)	Value
Thickness (mm)	0.6
Mass per unit area ( $\text{g}\cdot\text{m}^{-2}$ )	120
Roll length (m)	50
Roll width (m)	1/1.5
Colour	
upper face	Light grey
lower face	Light grey

## Ancillary Items

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

- Tacto — double-sided adhesive tape for sealing lap joints
- Permo TR Plus Tape — single-sided adhesive tape for sealing edges of lap joints
- Butylon-butyl adhesive tape — for sealing lap joints
- Klobber Underlay Support Tray — a PVC-U detail used to protect the edge of the underlay from the effect of UV light ageing, and as a run-off into gutters
- Klobber Eaves Closer — a mesh-reinforced PVC-U unit acting as a barrier against destructive pests while allowing natural air movements and moisture run-off from the batten space.

## Applications

The product is intended for use as fully supported (and secured with counter battens and tiling battens) or unsupported underlays (installed by draping over rafters and securing with tiling battens), in tiled and slated cold ventilated and warm non-ventilated pitched roof systems, constructed in accordance with the relevant clauses of BS 5534 : 2014.

In warm roofs, the product must be used over suitable timber-based sarking (Type 3 particleboards, Type 3 OSB or Type 2 plywood), either with continuous insulation or with insulation placed between the rafters.

## Definitions for products and applications inspected

Pitched roofs are defined for the purposes of this Certificate as those having a fall in excess of 10° and a maximum pitch of 70°.

## Product assessment – key factors

The product 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

Data were assessed for the following characteristics.

#### 1.1 Resistance to wind uplift

1.1.1 Results of resistance to wind uplift tests to BS 5534 : 2014 Annex A, and consequent zones of applicability, are given in Tables 2 and 3 of this Certificate.

*Table 2 Declared wind uplift resistance (Pa)*

Product assessed	≤ 345 mm batten gauge with battened lap <sup>(1)</sup>
Permo Ultra 120	1156.6 Pa

(1) Mean of test results.

*Table 3 Zones of applicability of Permo Ultra 120 underlay according to BS 5534 : 2014, clause A.8, with battened lap*

Product assessed	≤ 345 mm batten gauge with battened lap
Permo Ultra 120	Zones 1 to 3

1.1.2 On the basis of data assessed, the product is satisfactory for use in unsupported systems, in the geographical Wind Zones given in Table 3 of this Certificate, where a well-sealed ceiling, as defined in BS 9250 : 2007, Clause 3.7, is present and the roof has a ridge height ≤ 15 m, a pitch between 12.5 and 75°, and a site altitude ≤ 100 m, and where topography is not significant. For all other cases, the required uplift resistance must be determined using BS 5534 : 2014.

1.1.3 The product, when fully supported, has adequate resistance to wind uplift forces.

1.1.4 The product may be used at any batten gauge in all Wind Zones when laid over nominally airtight timber-based sarking (Type 3 particleboard, Type 3 OSB or Type 2 plywood), and insulation for warm-roof design. They may also be used in applications where slates are nailed directly onto sarking boards.

1.1.5 Timber sarking, such as square-edged butt-jointed planks, is not considered to be airtight and the underlay is treated as unsupported. Counter battens must be used in fully supported applications.

## 1.2 Resistance to mechanical damage

1.2.1 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
Permo Ultra 120	Nail tear to BS EN 12310-2 : 2018 with modifications as per BS EN 13859-1 : 2014 Annex B	≥ 50 N	
	Longitudinal direction		Pass
	Transverse direction		Pass
	Tensile strength to BS EN 12311-1 : 2000 with modifications as per BS EN 13859-1 : 2014 Annex A	Declared values	
	Longitudinal direction	200 (± 30%) N·(50 mm) <sup>-1</sup>	Pass
	Transverse direction	160 (± 30%) N·(50 mm) <sup>-1</sup>	Pass
	Elongation to BS EN 12311-1 : 2000 with modifications as per BS EN 13859-1 : 2014 Annex A	Declared values	
	Longitudinal direction	100 (± 10%)	Pass
	Transverse direction	120 (± 10%)	Pass

1.2.2 Data were assessed to establish the burst strength of the product.

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

## 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 tests are given in Table 5.

<i>Table 5 Reaction to fire</i>			
Product assessed	Assessment method	Requirement	Result
Permo Ultra 120	EN ISO 11925-2 : 2020 and classified in accordance with EN 13501-1 : 2007	Value achieved	F <sup>(1)</sup>

(1) Classification report reference H.K-063e/22, issued by FIW Munchen, available from the Certificate holder upon request.

2.1.2 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.

2.1.3 When the product is used unsupported, there is a risk that fire can spread if it is accidentally ignited during maintenance works, eg by a roofer's or plumber's torch. As with all types of underlay, care must be taken during building and maintenance to avoid ignition.

2.1.4 When the product is used with timber sarking, such as square-edged butt-jointed planks, the reaction to fire will be primarily determined by the sarking.

### 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 6.

Table 6 Weathertightness			
Product assessed	Assessment method	Requirement	Result
Permo Ultra 120	Water resistance to EN 1928 : 2000 with modifications to EN 13859-1 : 2014 2 kPa for 2 hours	No leakage	Pass
	Resistance to streaming water to MOAT 69 : 4.2.2 : 2004 Unsupported	No water penetration	Pass
	Supported		Pass

3.1.2 On the basis of data assessed, the product can be used unsupported and supported without affecting its water resistance.

3.1.3 The product is Class W1 in accordance with BS EN 13859-1 : 2014 and will resist the passage of water and wind-blown snow and dust into the interior of a building, under all conditions to be found in a roof constructed in accordance with the relevant clauses of BS 5534 : 2014.

3.1.4 The product resists penetration of liquid water and consequently may be used as temporary weatherproofing prior to the installation of slates or tiles. The period of such use must, however, be kept to a minimum as given in BBA Information Bulletin No. 2 *Permeable Roof Tile Underlay – Guide to Good Site Practice*.

#### 3.2 Condensation

3.2.1 Results of water vapour resistance tests are given in Table 7.

Table 7 Water vapour resistance <sup>(1)</sup>			
Product assessed	Assessment method	Requirement	Result
Permo Ultra 120	Water vapour diffusion equivalent air layer thickness ( $s_d$ ) to BS EN ISO 12572 : 2016	$s_d \leq 0.05$ m	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 7 and satisfactory conclusions were drawn.

3.2.3 For roofs designed in accordance with BS 5534 : 2014 and BS 5250 : 2021, the product may be regarded as Type LR underlays.

### 4 Safety and accessibility in use

Data were assessed for the following characteristics.

#### 4.1 Slip resistance

4.1.1 Results of slip resistance tests are given in Table 8.

**Table 8 Slip resistance**

Product assessed	Assessment method	Requirement	Result
Permo Ultra 120	Slip resistance to BBA Internal Test Specification T1/10 dry	Mean pendulum test value (PTV) $\geq 36$	
	Longitudinal direction		Pass
	Transverse direction		Pass
	wet		
	Longitudinal direction		Pass
	Transverse direction		Pass

4.1.2 On the basis of data assessed, the product has a high slip-resistant surface for increased safety during the installation of the covering.

## 5 Protection against noise

Not applicable.

## 6 Energy economy and heat retention

Not applicable.

## 7 Sustainable use of natural resources

The product comprises polypropylene, which can be recycled.

## 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 9.

**Table 9 Durability**

Product assessed	Assessment method	Requirement	Result
Permo Ultra 120	Dimensional stability to BS EN 1107-2 : 2001	$\leq 2\%$	
	Longitudinal direction		Pass
	Transverse direction		Pass
	Tensile strength to BS EN 12311-1 : 2000 with modifications as per BS EN 13859-1 : 2014 Annex A aged in accordance with BS EN 13859-2 : 2014 Annex C	Change < 30%	
	Longitudinal direction		Pass
	Transverse direction		Pass
	Elongation to BS EN 12311-1 : 2000 with modifications as per BS EN 13859-1 : 2014 Annex A aged in accordance with BS EN 13859-2 : 2014 Annex C	$\geq 50\%$ of initial tested value	
	Longitudinal direction		Pass
	Transverse direction		Pass
	Resistance to water penetration to EN 1928 : 2000 (2 kPa for 2 hours) aged in accordance with EN 13859-2 : 2014 Annex C	No leakage	Pass
	Flexibility at low temperature to BS EN 1109 : 2013	-25°C	Pass

### 8.3 Service life



8.3.1 Under normal service conditions, the product will have a service life comparable to that of traditional roof tile underlays, 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 prior to completion of the roof must be kept to a minimum. Advice regarding exposure must be obtained 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 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 Project-design wind speeds for the roof in which the product is installed must be determined, and wind uplift forces calculated, by a suitably experienced and competent individual in accordance with the principles of BS EN 1991-1-4 : 2005 and its UK National Annex.

9.1.3 In common with all roofs, care must be taken in the overall design and installation to minimise the risk of water vapour coming into contact with cold parts of the construction. Factors to be considered and minimised include moisture diffusion through the ceiling, infiltration through unsealed openings/penetrations in the ceiling and services evaporating or venting moisture into cold spaces.

9.1.4 When used in direct contact with treated timber, the advice of the Certificate holder must be sought on compatibility, but such advice is outside the scope of this Certificate.

9.1.5 The risk of condensation is highest in new-build construction during the first heating period, where there is high moisture loading owing to wet trades, such as in-situ cast concrete slabs or plaster. The risk of condensation diminishes as the building dries out. See BBA Information Bulletin No. 1 *Roof Tile Underlays in Cold Roofs during the Drying-out Period*.

9.1.6 In horizontal ceiling and insulation (cold roof) applications, roofs are designed and constructed in accordance with BS 5250 : 2021 will adequately limit the risk of interstitial condensation. Alternatively, ridge or high-level ventilation<sup>(1)</sup> equivalent to a continuous opening of 5 mm may be used. If this approach is adopted, users must take additional care to limit opportunities for vapour migration and accumulation in the loft spaces (see section 3.2.1 of this Certificate).

(1) The provisions of high-level ventilation, when using a LR underlay in cold pitched roofs, is a requirement under *NHBC Standards* 2025, Chapter 7.2.

9.1.7 For roofs with an insulated inclined ceiling (warm roof), ventilation above or below the underlay will not be required provided that the passage of moisture by diffusion and by convection is controlled, eg by a vapour control layer or a continuous envelope of insulation with a high vapour resistance and with sealed joints. Ventilation to the batten space may be required if specified by the tile manufacturer or where the roof covering is airtight, as described in BS 5250 : 2021.

9.1.8 Where an insulated ceiling spans only part of the roof line, resulting cold roof spaces must be ventilated in accordance with BS 5250 : 2021, Section 4, Subsection 12.

#### 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 recommendations of BS 5534 : 2014, BS 8000-0 : 2014 and BS 8000-6 : 2023. Installation can be carried out



under all conditions normal to roofing work. A summary of additional instructions and guidance is provided in Annex A of this Certificate.

9.2.3 The product must be installed with the printed light grey coloured side uppermost and lapped to shed water out and down the slope.

9.2.4 Overlaps must be provided with the minimum dimensions given in Table 10. The Certificate holder's advice must be sought when using tapes for sealing overlaps, but such advice is outside the scope of this Certificate.

**Table 10 Minimum overlaps**

Roof pitch (°)	Horizontal lap (mm)		Vertical laps (mm)
	Unsupported	Fully supported	
12.5 to < 15	225	150	100
≥ 15	150	100	100

9.2.5 The product, when installed as part of an unsupported system, must be fixed using the traditional method for roof tile underlays, ie draped between the rafters.

9.2.6 When fully supported, the membrane is laid directly over a supporting layer such as rigid insulation or a suitable timber-based sarking (Type 3 particleboards, Type 3 OSB or Type 2 plywood). The membrane is secured to the support with counter battens at least 12 mm thick to create a drainage and vapour dispersal space<sup>(1)</sup> between the membrane and the tiles. When using the traditional Scottish practice of timber plank sarking (typically 150 mm wide with a 2 mm gap), the tiles or slates are fixed directly into the boards.

(1) The space must be ventilated in accordance with BS 5250 : 2021 when using tight-fitting roof coverings.

9.2.7 Care must be taken to minimise the risk of interstitial condensation, particularly for timber sarking which may be below the dew-point for extended periods during winter months.

### 9.3 Workmanship

Practicability of installation was assessed by the BBA, on the basis of the Certificate holder's information and BS 5534 : 2014. 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 in a roof structure and has suitable durability, maintenance is not required.

9.4.2 Damage to the product must be repaired prior to the installation of slates or tiles by patching and sealing correctly. Care must be taken to ensure that the watertightness of the roof is maintained.

## 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 product is delivered to site individually wrapped in polythene packaging, along with a label bearing the Certificate holder's name and product name. A label bearing the BBA logo incorporating the number of this Certificate is applied to the outer polyethene wrapper.

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 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 13859-1 : 2010.

### CE marking

The Certificate holder has taken the responsibility of CE marking the product in accordance with harmonised European Standard EN 13859-1 : 2010.

### 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 Veritas France (FR067893-1).

### Additional information on installation

A.1 Eaves guards must be used to protect the product from sunlight and direct water into the gutter.

A.2 Detailing of abutments, verges and hips must be in accordance with the Certificate holder's instructions.

A.3 Tiling and slating must be carried out in accordance with the relevant clauses of BS 5534 : 2014, BS 8000-0 : 2014 and BS 8000-6 : 2023 and the Certificate holder's instructions, especially when using tightly jointed slates or tiles.

## Bibliography

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

BS 5534 : 2014 + A2 : 2018 *Slating and tiling for pitched roofs and vertical cladding — Code of practice*

BS 8000-0 : 2014 + A1 : 2024 *Workmanship on construction sites — Introduction and general principles*

BS 8000-6 : 2023 *Workmanship on construction sites — Code of practice for slating and tiling of roofs and walls*

BS 9250 : 2007 *Code of practice for design of the airtightness of ceilings in pitched roofs*

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

BS EN 1109 : 2013 *Flexible sheets for waterproofing — Bitumen sheets for waterproofing — Determination of flexibility at low temperature*

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

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

BS EN 12310-2 : 2018 *Flexible sheets for waterproofing — Determination of resistance to tearing — Plastic and rubber sheets for roof waterproofing*

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

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

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

BS EN ISO 9001 : 2015 *International Standard for Quality Management Systems*

BS EN ISO 12572 : 2016 *Hygrothermal performance of building materials and products — Determination of water vapour transmission properties — Cup method*

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

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

EN 13859-1 : 2010 *Flexible sheets for waterproofing — Definitions and characteristics of underlays — Underlays for discontinuous roofing*

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

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

EN ISO 11925-2 : 2020 *Reaction to fire tests — Ignitability of products subjected to direct impingement of flame — Single-flame source test*

MOAT 69 : 2004 *UEAtc Technical Report for the Assessment of Discontinuous Roofing Underlay Systems*

### 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.