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Agrément Certificate

06/4379

Product Sheet 4 Issue 2

MULTIFOIL INSULATION

TLX GOLD INSULATING BREATHER MEMBRANE FOR PITCHED ROOFS

This Agrément Certificate Product Sheet⁽¹⁾ relates to TLX Gold Insulating Breather Membrane for Pitched Roofs, a breathable roofing membrane and insulation with a breathable reflective layer, for use above rafters in slated or tiled roofs of up to 70° pitch in new and existing 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 Second issue: 15 October 2024

Originally certified on 30 November 2015

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 TLX Gold Insulating Breather Membrane for Pitched 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)

Requirement:	B3(4)	Internal fire spread
Comment:		The product can contribute to satisfying this Requirement. See section 2 of this Certificate.
Requirement:	C2(b)	Resistance to moisture
Comment:		The product can 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 sections 3 and 9 of this Certificate.
Requirement:	L1(a)(i)	Conservation of fuel and power
Comment:		The product can contribute to satisfying this Requirement; however compensating fabric measures will be required. See section 6 of this Certificate.
Regulation:	7(1)	Materials and workmanship
Comment:		The product is acceptable. See sections 8 and 9 of this Certificate.
Regulation:	25B	Nearly zero-energy requirements for new buildings
Regulation:	26	CO₂ emission rates for new buildings
Regulation:	26A	Fabric energy efficiency rates for new dwellings (applicable to England only)
Regulation:	26A	Primary energy consumption rates for new buildings (applicable to Wales only)
Regulation:	26B	Fabric performance values for new dwellings (applicable to Wales only)
Regulation:	26C	Target primary energy rates for new buildings (applicable to England only)
Regulation:	26C	Minimum energy efficiency rating (applicable to Wales only)
Comment:		The product can contribute to satisfying these Regulations; however, compensating fabric/service measures will be required. See section 6 of this Certificate.



The Building (Scotland) Regulations 2004 (as amended)

Regulation:	8(1)(2)	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 respect to clause 2.4.2 ⁽¹⁾ . See section 2 of this Certificate.
Standard:	3.10	Precipitation
Comment:		The product can contribute satisfying this Standard, with reference to clauses 3.10.1 ⁽¹⁾ and 3.10.8 ⁽¹⁾ . See section 3 of this Certificate.

Standard: Comment:	3.15	Condensation The product can contribute to satisfying this Standard, with reference to clauses 3.15.1 ⁽¹⁾ , 3.15.3 ⁽¹⁾ , 3.15.4 ⁽¹⁾ , 3.15.5 ⁽¹⁾ and 3.15.7 ⁽¹⁾ . See sections 3 and 9 of this Certificate.
Standard: Comment:	6.1(b)(c)	Energy demand The product can contribute to satisfying this Standard, with reference to clause 6.1.1 ⁽¹⁾ ; however, compensating fabric/service measures will be required. See section 6 of this Certificate.
Standard: Comment:	6.2	Building insulation envelope The product can contribute to satisfying this Standard, with reference to clauses 6.2.1 ⁽¹⁾ , 6.2.3 ⁽¹⁾ , 6.2.4 ⁽¹⁾ , 6.2.6 ⁽¹⁾ , 6.2.7 ⁽¹⁾ , 6.2.8 ⁽¹⁾ , 6.2.9 ⁽¹⁾ , 6.2.10 ⁽¹⁾ and 6.2.12 ⁽¹⁾ ; however, compensating fabric measures will be required. See section 6 of this Certificate.
Standard: Comment:	7.1(a)	Statement of sustainability The product can contribute to satisfying the relevant requirements of Regulation 9, Standards 1 to 6, and therefore will contribute to a construction meeting the bronze level of sustainability as defined in this Standard.
Regulation: Comment:	12	Building standards - conversion All comments made 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⁾ and Schedule 6 ⁽¹⁾ .

(1) Technical Handbook (Domestic).



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

Regulation: Comment:	23(1)(a)(i) (iii)(b)(i)(ii)	Fitness of materials and workmanship The product is acceptable. See sections 8 and 9 of this Certificate.
Regulation: Comment:	28(b)	Resistance to moisture and weather The product can contribute to satisfying this Regulation. See section 3 of this Certificate.
Regulation: Comment:	29	Condensation The product can contribute to satisfying this Regulation. See sections 3 and 9 of this Certificate.
Regulation: Comment:	35(4)	Internal fire spread (structure) The product can contribute to satisfying this Regulation. See section 2 of this Certificate.
Regulation: Comment:	39(a)(i)	Conservation measures The product can contribute to satisfying this Regulation; however, compensating fabric measures will be required. See section 6 of this Certificate.
Regulation: Regulation: Regulation: Comment:	40(2) 43(1)(2) 43B	Target carbon dioxide emission rate Renovation of thermal elements Nearly zero-energy requirements for new buildings The product can contribute to satisfying these Regulations; however, compensating fabric/service measures will be required. See section 6 of this Certificate.

Additional Information

NHBC Standards 2024

In the opinion of the BBA, TLX Gold Insulating Breather Membrane for Pitched 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*.

Fulfilment of Requirements

The BBA has judged TLX Gold Insulating Breather Membrane for Pitched Roofs to be satisfactory for use as described in this Certificate. The product has been assessed for use as a breathable roofing membrane and insulation with a breathable reflective layer, for use above rafters in slated or tiled roofs of up to 70° pitch in new and existing domestic buildings.

ASSESSMENT

Product description and intended use

The Certificate holder provided the following description for the product under assessment. TLX Gold Insulating Breather Membrane for Pitched Roofs consists of 7 layers including:

- polypropylene composite material — TLX UV25 (150 mm from the bottom edge is a double-sided adhesive tape strip)
- 3 layers of polyethylene terephthalate (PET) wadding
- 2 layers of breathable/reflective layers
- Gold-coloured, reflective polyurethane (PU) — coated breathable non-woven

The product has the nominal characteristics given in Table 1.

Table 1 Nominal characteristics of TLX Gold Insulating Breather Membrane for Pitched Roofs

Characteristic (unit)	Value
Width (m)	1.2
Length (m)	10
Thickness (mm)	33

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:

- 14 mm stainless steel staples
- nails
- pre-treated counter battens, softwood battens and tiling laths
- additional insulation
- 50 mm wide waterproof tape
- roofing slates or tiles.

Applications

The product has been assessed for use in constructions where it is installed over the timber rafters following the pitch of the roof and encloses a habitable space.

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 Mechanical properties

1.1.1 Results of mechanical properties tests are given in Table 2.

Table 2 Mechanical properties

Product assessed	Assessment method	Requirement	Result
TLX Gold Insulating Breather Membrane for Pitched Roofs	Tensile strength to BS EN 12311-1 : 2000	Confirm declared values Longitudinal direction = $385 \text{ N} \cdot (50\text{mm})^{-1}$ Transverse direction = $230 \text{ N} \cdot (50\text{mm})^{-1}$	Pass
TLX Gold Insulating Breather Membrane for Pitched Roofs	Tear resistance to BS EN 12310-1 : 2000	Confirm declared values Longitudinal direction = 198 N Transverse direction = 288 N	Pass

1.1.2 On the basis of data assessed, the product has satisfactory mechanical properties.

1.2 Resistance to wind uplift

1.2.1 The result of a resistance to wind uplift tests to BS 5534 : 2014 Annex A, and consequent Wind Zones of Applicability are given in Tables 3 and 4 of this Certificate.

Table 3 Declared wind uplift resistance (Pa)

Product	≤345 mm batten gauge with battened laps ⁽¹⁾	≤250 mm batten gauge with battened laps ⁽¹⁾⁽²⁾
TLX Gold Insulating Breather Membrane for Pitched Roofs	3335	>3335 ⁽³⁾

(1) Mean of test results.

(2) Underlays with a wind uplift resistance at a 250 mm batten gauge that satisfy the minimum design wind pressure of 820 Pa for Zone 1 are deemed to satisfy the requirements for use at a 100 mm batten gauge in all Wind Zones.

(3) This classification has not been tested and is based on test evidence of the 345 mm batten gauge.

Table 4 Wind Zones of Applicability

Product	≤345 mm batten gauge with battened laps	≤250 mm batten gauge with battened laps
TLX Gold Insulating Breather Membrane for Pitched Roofs	Zones 1 to 5	Zones 1 to 5 ⁽¹⁾

(1) This classification has been assumed and is based on test evidence of the 345 mm batten gauge.

2 Safety in case of fire

Data were assessed for the following characteristics.

2.1 Reaction to fire

2.1.1 The product was tested for reaction to fire and the classification is given in Table 5.

Table 5 Reaction to fire classification

Product assessed	Assessment method	Requirement	Result ⁽¹⁾
TLX Gold Insulating Breather Membrane for Pitched Roofs	BS EN 13501-1 : 2018	Value achieved	Class E

(1) BTTG test report – 27/05999/10/22– 28 October 2022, copies available from the Certificate holder on request.

2.1.2 The product must not be carried over junctions between roofs and walls required to provide a minimum period of fire resistance. The continuity of fire resistance must be maintained, as described in the documents supporting the national Building Regulations.

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

2.1.4 When the product is installed unprotected, there is a risk that fire can spread if it is accidentally ignited during maintenance works, eg by a plumber's torch. Care should be taken during building and maintenance to avoid the material becoming ignited.

3 Hygiene, health and the environment

Data were assessed for the following characteristics.

3.1 Water vapour permeability

3.1.1 The product was tested for water vapour permeability and the result is given in Table 6.

Table 6 Water vapour transmission

Product assessed	Assessment method	Requirement	Result
TLX Gold Insulating Breather Membrane for Pitched Roofs	BS EN 12086 : 1997	Value achieved	$S_d = 0.29$ m

3.1.2 On the basis of data assessed, the product has satisfactory resistance to water vapour.

3.1.3 For roofs designed in accordance with BS 5534 : 2014 and BS 5250 : 2021, the product may be regarded as a Type HR (high vapour resistance) underlay.

3.2 Weathertightness

3.2.1 The product was tested for watertightness and the result is given in Table 7.

Table 7 Watertightness

Product assessed	Assessment method	Requirement	Result
TLX Gold Insulating Breather Membrane for Pitched Roofs	BS EN 1928 : 2000	Value achieved	W1

3.2.2 On the basis of data assessed, the product has satisfactory resistance to water.

3.2.3 The product is classified as 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.

3.2.4 The product resists the penetration of liquid water and consequently may be used as temporary waterproofing 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*.

3.3 Condensation

The BBA has assessed the product data, and the risk of interstitial condensation and satisfactory conclusions were drawn.

4 Safety and accessibility in use

Not applicable.

5 Protection against noise

Not applicable.

6 Energy economy and heat retention

Data were assessed for the following characteristics.

6.1 Thermal performance

6.1.1 The product was tested for thermal resistance and the result is given in Table 8.

Table 8 Thermal resistance

Product assessed	Assessment method	Requirement	Result
TLX Gold Insulating Breather Membrane for Pitched Roofs	BS EN 12667 : 2001	Value achieved	0.85 m ² ·K·W ⁻¹

6.1.2 The product was tested for aged emissivity and the result is given in Table 9.

Table 9 Aged emissivity

Product assessed	Assessment method	Requirement	Result
TLX Gold outer layer	BS EN 15976 : 2011	Value achieved	0.16

6.1.3 The thermal transmittance (U value) of a pitched roof will depend on the thickness and conductivity of the additional insulation used and the extent and arrangement of timber bridging. Example roof constructions are shown in Figures 1 and 2 and the resulting U values for these constructions are given in Table 10.

Table 10 Thermal transmittance (U-Values) for pitched roof constructions

Product construction	Total Rafter depth (mm)	Additional insulation thickness ⁽¹⁾ (mm)	U value (W·m ⁻² ·K ⁻¹)
TLX Gold Insulating Breather Membrane for Pitched Roofs, draped over rafters (Figure 1)	150	80	0.25
	200	110	0.20
	200	130	0.18
TLX Gold Insulating Breather Membrane for Pitched Roofs, taut and counter-battened ⁽²⁾ (Figure 2)	150	85	0.25
	200	115	0.20
	200	135	0.18
	200	160	0.16

(1) Polyisocyanurate (PIR) insulation (λ_D of 0.022 W·m⁻¹·K⁻¹ and emissivity 0.2, thickness rounded to the nearest 5 mm).

(2) Battens parallel to rafters.

(3) Rafters 47 mm wide at 400 mm centres.

Figure 1 Example roof construction - draped over rafters

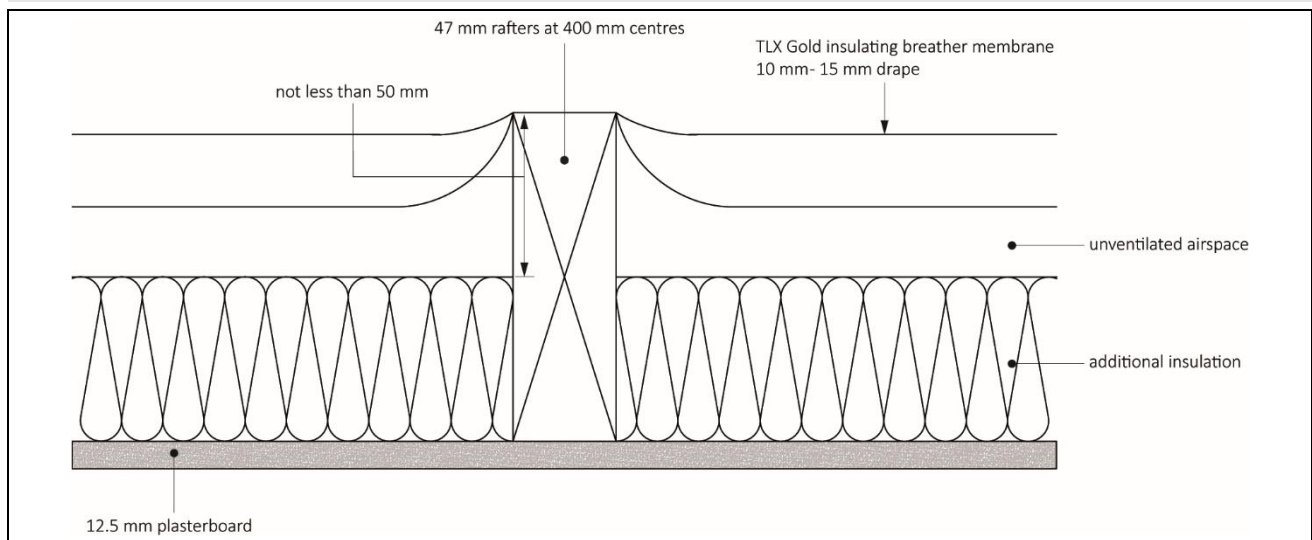
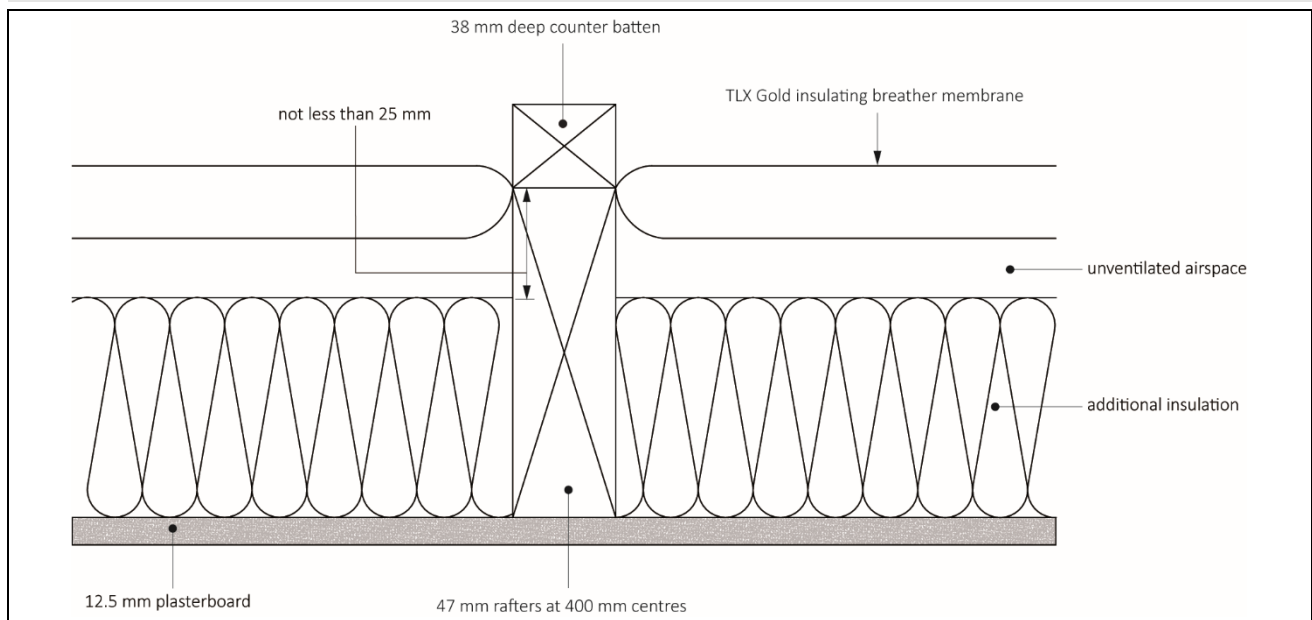


Figure 2 Example roof construction - taut and counter battened



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 11.

Table 11 Durability

Product assessed	Assessment method	Requirement	Result
TLX Gold Insulating Breather Membrane for Pitched Roofs	Resistance to water penetration to BS EN 1928 : 2000 Aged to BS EN 13859-1 : 2014 – Annex C	Confirmed classification does not change	W1
TLX Gold Insulating Breather Membrane for Pitched Roofs	Tensile strength to BS EN 12311-1 : 2000 Aged to BS EN 13859-1 : 2014 – Annex C	Confirm declared values Longitudinal direction = 370 N·(50mm) ⁻¹ Transverse direction = 210 N·(50mm) ⁻¹	Pass

8.3 Service life

Under normal service conditions, the product will have a life of at least equivalent to the structure in which it is incorporated, 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 Roofs must be designed and constructed in accordance with the relevant clauses of BS 5250 : 2021, BS 5534 : 2014, BS 8103-3 : 2009, BS 8212 : 1995, BS EN 351-1 : 2023, and the principles of BS EN 1995-1-1 : 2004 and its UK National Annex, and this Certificate.

9.1.3 When installed over the rafters, the product can perform as a breather membrane in the roof system.

9.1.4 Care must be taken in the overall design and construction of junctions with other elements and openings to minimise thermal bridges and air infiltration. Detailed guidance can be found in the documents supporting the national Building Regulations.

Unsupported

9.1.5 On the basis of data assessed, the product is satisfactory for use in unsupported systems, in the geographical Wind Zones given in Table 4 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°, 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 and the Certificate holder's declared wind uplift resistance values given in Table 3 of this Certificate.

9.1.6 In England, Scotland and Northern Ireland, roofs incorporating the product will contribute to limiting the risk of interstitial condensation when designed and constructed in accordance with BS 5250 : 2021 and BRE Report BR 262 : 2002.

9.1.7 The risk of interstitial condensation is greatest when the building is drying out after construction. Guidance on preventing condensation from this and other sources is given in BS 5250 : 2021 and BRE Report BR 262 : 2002.

9.1.8 When installed in conjunction with other insulation materials, the water vapour resistance and installation instructions of the additional insulation should also be taken into consideration.

9.1.9 In England and Wales, pitched roofs will limit the risk of surface condensation adequately where the thermal transmittance (U value) does not exceed $0.35 \text{ W}\cdot\text{m}^{-2}\cdot\text{K}^{-1}$ at any point and the junctions with other elements are designed in accordance with section 9.1.4 of this Certificate.

9.1.10 In Scotland, pitched roofs will limit the risk of surface condensation adequately where the thermal transmittance (U value) does not exceed $1.2 \text{ W}\cdot\text{m}^{-2}\cdot\text{K}^{-1}$ at any point. Guidance may be obtained from BS 5250 : 2021. Further guidance may be obtained from BRE Report BR 262 : 2002.

9.2 Installation

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

9.2.2 Installation must be carried out in accordance with this Certificate and the Certificate holder's instructions.

9.2.3 The product may be installed draped over rafters or taut over rafters and battened.

9.2.4 Installation starts from the bottom of the roof and the product is unrolled across the rafters.

9.2.5 The product is either draped into the rafters by 10 mm or installed tight over the rafters and fixed to each rafter using nails or staples of at least 14 mm length. In either case, the gold side must face inwards.

9.2.6 Vertical joints at the end of runs are created by separating the breather membrane layer from the rest of the product. The insulation layers are cut back to the centre of the last rafter that the material has crossed. A new roll then butts up to the cut back material. The created membrane flap then laps onto the new roll and is sealed using a 50 mm wide waterproof tape. The Certificate holder can advise on suitable materials for this purpose, but such advice and products are outside the scope of this Certificate.

9.2.7 Horizontal joints must be created so that the insulation layers are butt jointed. The built-in overlap flap laps onto the lower layer of material and is sealed using the integral tape.

9.2.8 Care must be taken to ensure that the product is covered as soon as possible after installation.

9.2.9 The product can be cut using sharp scissors or a knife.

9.2.10 The next roll must overlap the preceding layer by at least 150 mm, and the overlap must be sealed along the entire length using a suitable tape. The Certificate holder can advise on suitable materials for this purpose, but such advice and products are outside the scope of this Certificate.

9.2.11 Any exposed cut edges of the product must be sealed with a suitable adhesive tape. The Certificate holder can advise on suitable materials for this purpose, but such advice and products are outside the scope of this Certificate.

9.2.12 When the product is cut to fit around openings, eg roof lights, care should be taken to minimise gaps.

9.2.13 The product is permanently held in place with minimum 38 mm deep timber counter battens fitted in line with the rafters.

9.2.14 Tile battens and roof tiles or slates are then installed in accordance with BS 5534 : 2014.

9.2.15 Care must be taken to ensure the product does not come into contact with heat sources greater than 80°C.

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, installation of the product must be carried out 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 roof cavity and has suitable durability, maintenance is not required.

9.4.2 Care must be taken to ensure the product is not damaged during installation. Should damage occur, the product must be repaired with tape or replaced. The Certificate holder can advise on suitable materials for this purpose, but such advice and products are outside the scope of this Certificate.

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, an audit of the production location was undertaken, and it was confirmed that the production process was in accordance with the documented process, and that equipment has been 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 packaging bearing the Certificate holder and product names, batch number, the BBA logo incorporating the number of this Certificate and installation instructions.

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

11.2.1 The product must be stored in clean, dry conditions and not exposed to sunlight, open flame or other ignition sources and must be stored away from flammable material such as paint and solvents.

11.2.2 The product must be protected from being dropped or crushed by objects.

11.2.3 When installing in bright sunlight, appropriate sunglasses should be worn.

ANNEX A – SUPPLEMENTARY INFORMATION †

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 : 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 68919).

Bibliography

BBA Information Bulletin No. 2 *Permeable Roof Tile Underlay — Guide to Good Site Practice*

BRE Report BR 262 : 2002 *Thermal insulation: avoiding risks*

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

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

BS 8103-3 : 2009 *Structural design of low-rise buildings — Part 3: Code of practice for timber floors and roofs for housing*

BS 8212 : 1995 *Code of practice for Dry lining and partitioning using gypsum plasterboard*

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

BS EN 351-1 : 2023 *Durability of wood and wood-based products — Preservative-treated solid wood. Part 1: Classification of preservative penetration and retention*

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

BS EN 1995-1-1 : 2004 *Eurocode 5: Design of timber structures — Part 1-1: General — Common rules and rules for buildings*

NA to BS EN 1995-1-1 : 2004 *UK National Annex to Eurocode 5: Design of timber structures — Part 1-1: General — Common rules and rules for buildings*

BS EN 12086 : 1997 *Thermal insulating products for building applications – Determination of water vapour transmission properties*

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

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

BS EN 12667 : 2001 *Thermal performance of building materials and products — Determination of thermal resistance by means of guarded hot plate and heat flow meter methods — Products of high and medium thermal resistance*

BS EN 13501-1 : 2018 *Fire classification of construction products and building elements — Part 1: Classification using data from reaction to fire tests*

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

BS EN 15976 : 2011 *Flexible sheets for waterproofing — Determination of emissivity*

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

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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