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Agrément Certificate

25/7493

Product Sheet 1 Issue 1

PERMAVENT FLASHINGS

PERMAFLEX

This Agrément Certificate Product Sheet⁽¹⁾ relates to Permaflex, a polyisobutylene flashing with an aluminium core, and a butyl adhesive protected by a split release liner on the lower surface, for use as waterproofing in flashing applications on pitched roofs, as an alternative to lead flashing.

(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: 21 November 2025

A handwritten signature in black ink, appearing to read 'Hardy Giesler'.

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 Permaflex, if installed, used and maintained in accordance with this Certificate, can satisfy or contribute to satisfying the relevant requirements of the following Building Regulations:



The Building Regulations 2010 (England and Wales) (as amended)

Requirement:	B4(1)	External fire spread
Comment:		The product is restricted by this Requirement in some circumstances. See section 2 of this Certificate.
Requirement:	B4(2)	External fire spread
Comment:		The product may be restricted by this Requirement. See section 2 of this Certificate.
Requirement:	C2(b)	Resistance to moisture
Comment:		The product will contribute to a roof satisfying this Requirement. See section 3 of this Certificate.
Regulation:	7(1)	Materials and workmanship
Comment:		The product is acceptable. See sections 8 and 9 of this Certificate.
Regulation:	7(2)	Materials and workmanship
Comment:		The product is restricted by this Regulation. See section 2 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 roof satisfying the requirements of this Regulation. See sections 8 and 9 of this Certificate.
Regulation:	8(3)	Fitness and durability of materials and workmanship
Comment:		The product is restricted by this Regulation. See section 2 of this Certificate.
Regulation:	9	Building standards – construction
Standard:	2.6	Spread to neighbouring buildings
Standard:	2.7	Spread on external walls
Comment:		The product is restricted by these Standards, with reference to clauses 2.6.4 ⁽¹⁾⁽²⁾ , 2.6.5 ⁽¹⁾ 2.6.6 ⁽²⁾ and 2.7.1 ⁽¹⁾⁽²⁾ , in some circumstances. See section 2 of this Certificate.
Standard:	2.8	Spread from neighbouring buildings
Comment:		The product may be restricted by this Standard, with reference to clause 2.8.1 ⁽¹⁾⁽²⁾ . See section 2 of this Certificate.
Standard:	3.10	Precipitation
Comment:		The product will contribute to a roof satisfying this Standard, with reference to clauses 3.10.1 ⁽¹⁾⁽²⁾ , 3.10.7 ⁽¹⁾⁽²⁾ and 3.10.8 ⁽¹⁾⁽²⁾ . See section 3 of this Certificate.
Standard:	7.1(a)	Statement of sustainability
Comment:		The product 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.

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



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

Regulation:	23(1)(a)(i)	Fitness of materials and workmanship
Comment:	(iii)(b)(i)	The product is acceptable. See sections 8 and 9 of this Certificate.
Regulation:	23(2)	Fitness of materials and workmanship
Comment:		The product is restricted by this Regulation. See section 2 of this Certificate.
Regulation:	28(b)	Resistance to moisture and weather
Comment:		The product will contribute to a roof satisfying this Regulation. See section 3 of this Certificate.
Regulation:	36(a)	External fire spread
Comment:		The product is restricted by this Regulation, in some circumstances. See section 2 of this Certificate.
Regulation:	36(b)	External fire spread
Comment:		The product may be restricted by this Regulation. See section 2 of this Certificate.

Additional Information

NHBC Standards 2025

In the opinion of the BBA, Permaflex, 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 6.8 Fireplaces, chimneys and flues* and *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 Permaflex to be satisfactory for use as described in this Certificate. The product has been assessed for use in flashing applications, such as side abutments, on pitched roofs, to provide a weatherproof junction.

ASSESSMENT

Product description and intended use

The Certificate holder provided the following description for the product under assessment. Permaflex a polyisobutylene flashing with an aluminium core, and a butyl adhesive protected by a split release liner on the lower surface, for use as waterproofing in flashing applications on pitched roofs, as an alternative to lead flashing.

The product has the nominal characteristics given in Table 1.

Table 1 Nominal characteristics

Characteristic (unit)	Value
Thickness (mm)	1.98
Roll width (mm)	150, 280, 370, 508
Length (m)	5
Weight of roll (kg)	2.6, 4.9, 6.4, 8.1
Colour	Grey, Black

Applications

The product is intended for use in flashing applications such as:

- side abutments
- stepped flashings
- dormers and chimneys.
- saddles
- valleys
- solar panel apron flashing

Definitions for products and applications inspected.

A pitched roof is defined for the purpose of this Certificate as a roof having a fall in excess of 1:6.

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 unless otherwise stated.

1 Mechanical resistance and stability

Data were assessed for the following characteristics.

1.1 Strength and stability

1.1.1 Results of strength and stability tests are given in Table 2.

Table 2 Strength and stability

Product assessed	Assessment method	Requirement	Result
Permaflex	Tensile strength to DIN EN 12311-1 : 2000	Value achieved	
	Longitudinal direction		264 N·(50 mm) ⁻¹
	Transverse direction		353 N·(50 mm) ⁻¹
	Elongation to DIN EN 12311-1 : 2000	Value achieved	
	Longitudinal direction		46%
	Transverse direction		31%
	Dimensional stability to BS EN 1107-1 : 2000	Value achieved	
	Longitudinal direction		0.5%
	Transverse direction		0.5%

1.1.2 On the basis of data assessed, the product has suitable mechanical properties for its intended use.

2 Safety in case of fire

Data were assessed for the following characteristics.

2.1 External fire spread

2.1.1 The Certificate holder has not declared a resistance to external fire exposure for the product to BS EN 13501-5 : 2016.

2.1.2 On the basis of data assessed, the performance of the product must be assessed in the context of the overall roof construction. These specifications must therefore be evaluated by reference to the requirements of the documents supporting the relevant national Building Regulations and any consequent restrictions imposed by those documents, on a case-by-case basis.

2.2 Reaction to fire

2.2.1 The reaction to fire classification for the product is given in Table 3.

Table 3 Reaction to fire classification

Product assessed	Assessment method	Requirement	Result ⁽¹⁾
Permaflex	DIN EN 13501-1 : 2019	Classification achieved	E

(1) Classification report K-MPABS-2401029-b, copies are available from the Certificate holder on request.

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

2.2.3 In England, the product, when used on roofs with pitches of greater than 70°, must not be used less than 1 m from a relevant boundary, on residential buildings more than 11 m in height or on other buildings more than 18 m in height. Restrictions apply on assembly and recreation buildings. These constructions must also be included in calculations of unprotected area.

2.2.4 In Wales and Northern Ireland, the product, when used on roofs with pitches greater than 70°, must not be used less than 1 m from a relevant boundary, or on other buildings more than 18 m in height. Restrictions apply on assembly and recreation buildings. These constructions must also be included in calculations of unprotected area.

2.2.5 In Scotland, the product, when used on roofs with pitches greater than 70°, must not be used less than 1 m from a relevant boundary, or on buildings 11 m or more in height. These constructions must also be included in calculations of unprotected area.

2.2.6 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 test are given in Table 4.

Table 4 Weathertightness

Product assessed	Assessment method	Requirement	Result
Permaflex	Water absorption to MOAT 66 : 2001	Value achieved	0.25% change in weight
	Peel strength from a concrete substrate to DIN 1048-2 : 1991 Control Tested at -10°	Value achieved No significant deterioration	0.15 N·mm ⁻² Pass
	Low temperature flexibility to DIN EN 495-5 : 2001 at -30°C	No cracks or fractures	Pass

3.1.2 On the basis of data assessed, the product, when incorporated into a roofing system designed and installed in accordance with conventional good practice and this Certificate, will adequately resist the passage of moisture to the interior of the building and so contribute to the roof satisfying the requirements of the national Building Regulations.

4 Safety and accessibility in use

Not applicable.

5 Protection against noise

Not applicable.

6 Energy economy and heat retention

Not applicable.

7 Sustainable use of natural resources

Not applicable.

8 Durability

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

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

Product assessed	Assessment method	Requirement	Results
Permaflex	Tensile properties to DIN EN 12311-1 : 2000	No significant deterioration	Pass
Permaflex	UV aged for 3500 h to DIN EN 1297 : 2004		
Permaflex	heat aged at 80°C for 12 weeks to DIN EN 1296		
	Resistance to chemical attack to DIN EN 1847		
	10% NaCl solution		Pass
	Saturated lime water solution		Pass
	Sulfurous acid		Pass
	Elongation to DIN EN 12311-1 : 2000	No significant deterioration	Pass
	UV aged for 3500 h to DIN EN 1297 : 2004		
	heat aged at 80°C for 12 weeks to DIN EN 1296		
	Resistance to chemical attack to DIN EN 1847		
	10% NaCl solution		Pass
	Saturated lime water solution		Pass
	Sulfurous acid		Pass
	Low temperature flexibility to DIN EN 495-5 : 2001 at -30°C	No cracks or fractures	Pass
	heat aged at 80°C for 12 weeks to DIN EN 1296		

8.3 Service life

Under normal service conditions, the product will have a life in excess of 20 years, provided it is designed, installed and maintained in accordance with this Certificate and the Certificate holder's instructions.

PROCESS ASSESSMENT

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

9 Design, installation, workmanship and maintenance

9.1 Installation

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

9.1.2 Installation of Permaflex must be strictly in accordance with the Certificate holder's instructions, the relevant recommendations of BS 5534 : 2014, BS 8000-0 : 2014 and BS 8000-6 : 2023, and this Certificate.

9.1.3 The product is worked in the same way as lead flashing. It can be cut with a sharp knife, scissors or snips. Protective gloves must be worn during installation.

9.1.4 When forming an apron on the front of a chimney, the 280 mm wide product is used, ensuring a minimum application of 75 mm up the chimney.

9.1.5 150 mm of the product must be allowed either side of the chimney to lap over and dress into the pan of the tiles, trimming off any excess.

9.1.6 The top half of the protective film must be removed and the product dressed into the brickwork by 25 mm, before removing the bottom half of the protective film and dressing into the tiles. The leftover cuts of Permaflex can be trimmed down and used as wedges into the brickwork.

9.1.7 For the side/step flashing, the 370 mm wide product must be used, allowing for 150 mm extra at the top and bottom of the chimney. The product is folded in half and placed against the chimney marking out the waterline and the line of the brickwork allowing for 25 mm dressing into the course of bricks.

9.1.8 Silicone based sealant must not be used when pointing the product into the brickwork.

Installation with solar panels

9.1.9 All tile/slate surfaces must be clean, dry and dust free to obtain full adhesion.

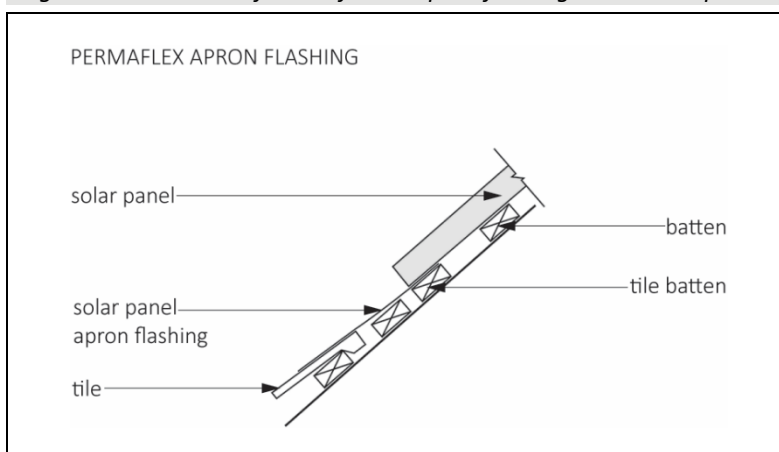
9.1.10 An intermediate batten maybe required to bridge any gap between the lower tile and the solar panel to support the Permaflex. Any gap should be no more than 50 mm.

9.1.11 370 mm Permaflex is installed, extending no less than 150 mm from the edge of the panels.

9.1.12 The top half of the protective film must be removed and fixed into place and 20 mm head tacks 150 mm are installed from the edge, repeating every 500mm. The bottom half of the protective film is then removed and the product dressed into the tiles using a small metal roller. Should more than one length of Permaflex be required, successive rolls must be overlapped by at least 150mm.

9.1.13 The fixing of the solar panel units to the roof is outside the scope of this Certificate.

Figure 1 Installation of Permaflex as apron flashing under solar panels



9.2 Workmanship

Practicability of installation was assessed by the BBA, on the basis of the Certificate holder's information and a survey of known users. 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.

9.3 Maintenance and repair

9.3.1 There are no maintenance requirements, other than a regular visual check for damage. Damaged areas can be repaired by following the Certificate holder's instructions prior to completing the roof covering.

9.3.2 Damage to the product can be repaired prior to the installation of slates or tiles by patching and sealing the damaged areas. 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 in packaging bearing the product name and Certificate holder's names and weight of contents in kilograms.

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 upright 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.

Management Systems Certification for production

The management system of the manufacturer has been assessed and registered as meeting the requirements of DIN EN ISO 9001 : 2015 by TÜV SÜD Management Service GmbH(Certificate - 12 100/104 7858 TMS).

Bibliography

- BS 5534 : 2014 + A2 : 2018 *Slating and tiling for pitched roofs and vertical cladding — Code of practice*
- BS 8000-0 : 2014 + 2024 *Workmanship on building sites — Introduction and general principles*
- BS 8000-6 : 2023 *Workmanship on building sites — Code of practice for slating and tiling of roofs and claddings*
- BS EN 1107-1 : 2000 *Flexible sheets for waterproofing — Determination of dimensional stability — Part 1: Bitumen sheets for roof waterproofing*
- BS EN 13501-5 : 2016 *Fire classification of construction products and building elements — Classification using data from external fire exposure to roofs tests*
- DIN EN 1847 : 2009 *Flexible sheets for waterproofing — Plastics and rubber sheets for roof waterproofing — Methods for exposure to liquid chemicals, including water*
- DIN EN 495-5 : 2001 *Flexible sheets for waterproofing — Determination of foldability at low temperature — Part 5: Plastic and rubber sheets for roof waterproofing*
- DIN EN 1296 : 2000 *Flexible sheets for waterproofing - Bitumen, plastic and rubber sheets for roofing - Method of artificial ageing by long term exposure to elevated temperature*
- DIN EN 1297 : 2004 *Flexible sheets for waterproofing - Bitumen, plastic and rubber sheets for roof waterproofing - Method of artificial ageing by long term exposure to the combination of UV radiation, elevated temperature and water*
- DIN EN 12311-1 : 2000 *Flexible sheets for waterproofing — Determination of tensile properties — Part 1: Bitumen sheets for roof waterproofing*
- DIN EN 13501-1 : 2019 *Fire classification of construction products and building elements — Classification using test data from reaction to fire tests*
- DIN EN ISO 9001 : 2015 *Quality Management systems — Requirements*
- DIN 1048-2 : 1991 *Testing concrete; testing of hardened concrete*
- MOAT 66 : 2001 *UEAtc Technical Guide for the Assessment of Non Reinforced, Reinforced and/or backed Roof Waterproofing Systems made of EPDM*

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
- 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.

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