

## Perform A/S

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## Agrément Certificate

09/4681

Product Sheet 1

### PERFORM FLASHINGS

### PERFORM FLEXIBLE ROOF FLASHING

This Agrément Certificate Product Sheet<sup>(1)</sup> relates to Perform Flexible Roof Flashing for use as waterproofing in flashing applications on flat and pitched roofs, as an alternative to lead flashing.

(1) Hereinafter referred to as 'Certificate'.

#### CERTIFICATION INCLUDES:

- factors relating to compliance with Building Regulations where applicable
- factors relating to additional non-regulatory information where applicable
- independently verified technical specification
- assessment criteria and technical investigations
- design considerations
- installation guidance
- regular surveillance of production
- formal three-yearly review.



#### KEY FACTORS ASSESSED

**Weathertightness** — as part of a complete roof, the product will contribute to resisting the passage of moisture and wind-blown snow and dust into the interior of the building (see section 6).

**Properties in relation to fire** — the product, when used as part of a complete roof system, will be unrestricted under the national Building Regulations (see section 7).

**Strength** — the product has adequate strength to resist the loads associated with the installation of the roof (see section 8).

**Durability** — under normal service conditions, the product will have a service life in excess of 20 years (see section 10).



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: 2 January 2018

John Albon – Head of Approvals  
Construction Products

Originally certificated on 7 September 2009

Claire Curtis-Thomas  
Chief Executive

The BBA is a UKAS accredited certification body – Number 113.

The schedule of the current scope of accreditation for product certification is available in pdf format via the UKAS link on the BBA website at [www.bbacerts.co.uk](http://www.bbacerts.co.uk)  
Readers are advised to check the validity and latest issue number of this Agrément Certificate by either referring to the BBA website or contacting the BBA direct.

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## Regulations

In the opinion of the BBA, Perform Flexible Roof Flashing, 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 presence of a UK map indicates that the subject is related to the Building Regulations in the region or regions of the UK depicted):



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

<b>Requirement:</b>	<b>B4(2)</b>	<b>External fire spread</b>
Comment:		The product, when used as part of a complete roof, will not affect the fire rating of the roof construction. See section 7 of this Certificate.
<b>Requirement:</b>	<b>C2(b)</b>	<b>Resistance to moisture</b>
Comment:		The product will contribute to a roof satisfying this Requirement. See section 6 of this Certificate.
<b>Regulation:</b>	<b>7</b>	<b>Materials and workmanship</b>
Comment:		The product is acceptable. See section 10 and the <i>Installation</i> part of this Certificate.



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

<b>Regulation:</b>	<b>8(1)(2)</b>	<b>Durability, workmanship and fitness of materials</b>
Comment:		The product can contribute to a roof satisfying the requirements of this Regulation. See sections 9 and 10 and the <i>Installation</i> part of this Certificate.
<b>Regulation:</b>	<b>9</b>	<b>Building standards applicable to construction</b>
Standard:	<b>2.8</b>	Spread from neighbouring buildings
Comment:		The product can be regarded as having a low vulnerability, with reference to clause 2.8.1 <sup>(1)(2)</sup> of this Standard, and will not affect the fire rating of the roof construction. See section 7 of this Certificate.
Standard:	<b>3.10</b>	Precipitation
Comment:		The product will contribute to a roof satisfying clauses 3.10.1 <sup>(1)(2)</sup> , 3.10.7 <sup>(1)(2)</sup> and 3.10.8 <sup>(1)(2)</sup> of this Standard. See section 6 of this Certificate.
Standard:	<b>7.1(a)(b)</b>	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.
<b>Regulation:</b>	<b>12</b>	<b>Building standards applicable to conversions</b>
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 <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(a)(i)</b>	<b>Fitness of materials and workmanship</b>
Comment:	<b>(iii)(b)(i)</b>	The product is acceptable. See section 10 and the <i>Installation</i> part of this Certificate.
<b>Regulation:</b>	<b>28(b)</b>	<b>Resistance to moisture and weather</b>
Comment:		The product will contribute to a roof satisfying this Regulation. See section 6 of this Certificate.

<b>Regulation:</b>	<b>36(b)</b>	<b>External fire spread</b>
<b>Comment:</b>	The product, when used as part of a complete roof, will not affect the fire rating of the roof construction. See section 7 of this 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.

See sections: 1 *Description* (1.2) and 11 *General* (11.2) of this Certificate.

### Additional Information

#### NHBC Standards 2018

In the opinion of the BBA, Perform Flexible Roof Flashing, 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*, 7.1 *Flat roofs and balconies* and 7.2 *Pitched roofs*.

### Technical Specification

#### 1 Description

1.1 Perform Flexible Roof Flashing is a polymer based flashing material with an aluminium mesh reinforcement. The lower surface is finished with a film to protect the rolls during storage and installation.

1.2 The rolls are available with the nominal characteristics of:

roll length (m)	4
roll widths (mm)	150, 250, 300, 450 and 1250
roll weight (kg)	2.1, 3.6, 4.3, 6.5 and 18
colour	black, terracotta, grey, brown and anthracite.

1.3 Perform Adhesive is available for use in joints and for sealing onto tiles, slates, masonry and brickwork.

1.4 Ancillary items for use with the product, but outside the scope of this Certificate, are:

- Perform Glue — for pre-fixing and/or pre-shaping of joints and flashings
- Flash Seal — for surface treatment of Perform Flexible Roof Flashing where water travels from a copper or bitumen roof onto the flashing
- Perform Hammer — for embossing the product into shape.

#### 2 Manufacture

2.1 The product is manufactured by coating both sides of an aluminium mesh reinforcement with a mixture of rubber polymer and additives.

2.2 As part of the assessment and ongoing surveillance of product quality, the BBA has:

- agreed with the manufacturer the quality control procedures and product testing to be undertaken
- assessed and agreed the quality control operated over batches of incoming materials
- monitored the production process and verified that it is in accordance with the documented process
- evaluated the process for management of nonconformities
- checked that equipment has been properly tested and calibrated
- undertaken to carry out 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.

2.3 The product is manufactured by the Certificate holder in Denmark.

### 3 Delivery and site handling

3.1 The product is distributed in boxed rolls marked with the size and the BBA Logo incorporating the number of this Certificate.

3.2 The product should be stored on a smooth, clean, dry surface, under cover and protected from sunlight.

## Assessment and Technical Investigations

The following is a summary of the assessment and technical investigations carried out on Perform Flexible Roof Flashing.

### Design Considerations

#### 4 Use

4.1 Perform Flexible Roof Flashing, when designed and installed in accordance with the relevant parts of BS 5534 : 2014, BS 6229 : 2003, BS 8000-0 : 2014 and BS 8000-6 : 1990, is suitable for use in flashing applications, such as abutments, chimneys, saddles, valleys and dormers to provide a weatherproof junction.

4.2 Flat roofs are defined for the purposes of this Certificate as those having a minimum finished fall of 1:80. Pitched roofs are defined as those having falls in excess of 1:6 or 10°.

4.3 Where the product is likely to come into contact with aggressive chemicals (such as acid, alkali, oil or solvent), a test on the product should be conducted before proceeding. If any doubt arises, the Certificate holder's advice should be sought.

#### 5 Practicability of installation

The product can be installed by roofing contractors experienced with this type of product.

#### 6 Weathertightness



Perform Flexible Roof Flashing, when incorporated into a roofing system designed and installed in accordance with conventional good practice, 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.

#### 7 Properties in relation to fire



7.1 Samples of Perform Flexible Roof Flashing, when tested in accordance with BS 476-3 : 2004, achieved a C rating for surface spread of flame.

7.2 When tested in accordance with DIN 4102-1 : 1998, the product achieved a B2 rating.

7.3 In the opinion of the BBA, the product therefore achieves an AC or low vulnerability rating as defined in the national Building Regulations.

#### 8 Strength

The product will resist normal impacts associated with installation and use.

## 9 Maintenance



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.

## 10 Durability



The product, when subjected to normal conditions of exposure and use, will have a life in excess of 20 years.

## Installation

### 11 General

11.1 Installation of Perform Flexible Roof Flashing should be strictly in accordance with the Certificate holder's instructions and the relevant recommendations of BS 5534 : 2014, BS 6229 : 2003, BS 8000-0 : 2014 and BS 8000-6 : 1990.

11.2 The product is worked the same way as lead flashing, by bossing around shapes or folding as required. It can be cut with a sharp knife scissors or snips. In respect of health, protective gloves should be worn during installation.

11.3 Cutting and folding, including when working with a lead dresser, can be carried out at a minimum temperature of  $-40^{\circ}\text{C}$ .

11.4 Foot traffic should be avoided or a protection board should be used when installing the product as a valley lining.

11.5 Overlap joints of 30 mm minimum are required between the product and must be sealed with Perform Adhesive.

### 12 Procedure

12.1 If necessary, the product can be pre-bent or shaped before mounting.

12.2 The side with the protection foil is the visible or upper face of the material and print on the backside.

12.3 For flashing against the wall, the top edges of the product are tucked into the masonry walls and dressed under the cavity trays. The flashing is then dressed into shape with a Perform Hammer whilst supporting the previous profile of the roof covering.

12.4 In exposed areas, the product can be spot-adhered on the surface of the tiles.

12.5 When using the product against chimneys, sections of the flashing should be prepared in situ before mounting, using four pieces of the flashing and folding the joints, and finishing off with a loose zinc edge.

12.6 The side pieces should be cut into the desired shape, bent along the length and folded. The flexible fold allows the flashing to be pre-bent to the desired angle.

12.7 When using the product at a chimney, it should be bent at the footing and cut at an angle on both sides. The product is mounted on the chimney using rivets. The side sections of the product should be bent and dressed into the desired shape.

12.8 Perform Adhesive is applied to the side and base sections, whilst pressing the side sections into place on the base section.

12.9 When using the product in valleys, it should be used for termination at the base of the valley to dress into the main roof gutters. The valley gutter and flashing are joined with a double fold.

12.10 Joints can be completed by folding or by joining the overlaps. In either case, all joints must be sealed with Perform Adhesive.

## 13 Repair

Damage to the product can be repaired easily 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.

## Technical Investigations

### 14 Tests

Tests were carried out and the results assessed to determine:

- ash content
- dimensional checks
- weight per unit area
- tensile strength and elongation at break
- resistance to tear
- water absorption
- water vapour transmission
- effect of heat ageing
- resistance to UV exposure and stability
- dimensional stability
- low temperature flexibility on controls and following heat ageing
- peel strength from support on controls and following heat ageing.

### 15 Investigations

15.1 The manufacturing process was evaluated, including the methods adopted for quality control, and details were obtained of the quality and composition of the materials used.

15.2 An assessment was made of fire test data to BS 476-3 : 2004.

15.3 An assessment was made of existing data on:

- effect of accelerated ageing
- heat/rain cycling
- watertightness of joints.

## Bibliography

BS 476-3 : 2004 *Fire tests on building materials and structures — Classification and method of test for external fire exposure to roofs*

BS 5534 : 2014 + A1: 2015 *Slating and tiling for pitched roofs and vertical cladding — Code of practice*

BS 6229 : 2003 *Flat roofs with continuously supported coverings — Code of practice*

BS 8000-0 : 2014 *Workmanship on building sites — Introduction and general principles*

BS 8000-6 : 2013 *Workmanship on building sites — Code of practice for slating and tiling of roofs and claddings*

DIN 4102-1 : 1998 *Fire behaviour of building materials and building components; Building materials; concepts, requirements and tests*

### 16 Conditions

#### 16.1 This Certificate:

- relates only to the product/system 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 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.

16.2 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.

16.3 This Certificate will remain valid for an unlimited period provided that the product/system 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.

16.4 The BBA has used due skill, care and diligence in preparing this Certificate, but no warranty is provided.

16.5 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/system or any other product/system
- the right of the Certificate holder to manufacture, supply, install, maintain or market the product/system
- actual installations of the product/system, including their nature, design, methods, performance, workmanship and maintenance
- any works and constructions in which the product/system is installed, including their nature, design, methods, performance, workmanship and maintenance
- any loss or damage, including personal injury, howsoever caused by the product/system, including its manufacture, supply, installation, use, maintenance and removal
- any claims by the manufacturer relating to CE marking.

16.6 Any information relating to the manufacture, supply, installation, use, maintenance and removal of this product/system which is contained or referred to in this Certificate is the minimum required to be met when the product/system 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.