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**Agrément Certificate**

**08/4577**

Product Sheet 2

## UBBINK FLASHINGS

### UBIFLEX EXTREME WATERPROOF FLASHING

This Agrément Certificate Product Sheet<sup>(1)</sup> relates to Ubiflex Extreme Waterproof Flashing, for use in flashing applications on flat and pitched roofs.

(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 into the interior of the building (see section 6).

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

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

**Durability** — under normal service conditions, the product will have a service life of at least 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

John Albon – Head of Approvals  
Construction Products

Claire Curtis-Thomas  
Chief Executive

Date of First issue: 20 November 2017

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  
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, Ubiflex Extreme Waterproof 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 construction 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 *General* (11.2) of this Certificate.

### Additional Information

#### NHBC Standards 2017

In the opinion of the BBA, Ubiflex Extreme Waterproof 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 Ubiflex Extreme Waterproof Flashing is a silicone based flashing material with an aluminium mesh reinforcement.

1.2 The flashing has a thickness of 2.5 mm and is manufactured to the dimensions given in Table 1. The product is available in Black/Grey and Grey/Red, and the colours are reversible with either colour used as the exposed surface.

Table 1 Product dimensions

Width (mm)	Length (m)	Roll weight (kg)
150	5	5.0
300	5	6.8
450	5	10.0
930	5	16.5

1.3 Ubiflex Extreme Fix Adhesive is available for use in joints and for sealing onto slates, tiles, upstands, and soakers, and Ubiflex Fixing Clips are for use in fixing into chased pointing joints.

#### 2 Manufacture

2.1 The product is manufactured by coating both sides of a reinforced aluminium mesh with silicone sheets.

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 management system of the manufacturer has been assessed and registered as meeting the requirements of BS EN ISO 9001 : 2015 by Lloyds Register Nederland B.V (Certificate RQA667497).

### 3 Delivery and site handling

3.1 The product is distributed in boxes marked with the size, including a wrapper with installation instructions and the BBA logo incorporating the number of this Certificate.

3.2 The product should be stored upright, 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 Ubiflex Extreme Waterproof Flashing.

## Design Considerations

### 4 Use

4.1 Ubiflex Extreme Waterproof Flashing, when designed and installed in accordance with BS 5534 : 2014, BS 6229 : 2003, BS 8000-0 : 2014 and BS 8000-6 : 2013, is satisfactory 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.

### 5 Practicability of installation

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

### 6 Weathertightness



Ubiflex Extreme Waterproof 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 Ubiflex Extreme Waterproof Flashing, when tested in accordance with BS 476-3 : 2004, achieved an A rating for surface spread of flame.

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

### 8 Strength

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

8.2 Tests conducted on the product applied using Ubiflex Extreme Fix Adhesive surrounding a brick upstand and on double pantiles indicated that it could resist wind speeds of at least  $45 \text{ m}\cdot\text{s}^{-1}$  (101 mph) without failing or demonstrating any visible signs of distress.

### 9 Maintenance



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

## 10 Durability



The product, when subjected to normal conditions of exposure and use, will have a service life of at least 20 years.

## Installation

### 11 General

11.1 Ubiflex Extreme Waterproof Flashing must be installed and fixed in accordance with this Certificate, the Certificate holder's instructions and the relevant recommendations of BS 5534 : 2014, BS 6229 : 2003, BS 8000-0 : 2014 and BS 8000-6 : 2013.

11.2 The product is worked the same way as lead flashing but without the need for protective measures. It can be cut with a sharp knife or snips.

11.3 The product can be applied (e.g. cutting, plying, bossing) at temperatures between -30°C and +180°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 The product can be installed in long lengths, without joints. If overlap joints are required, they should be 150 mm and should be sealed with Ubiflex Extreme Fix Adhesive.

### 12 Procedure

12.1 For flashing, the product is fitted into the pointing gap by at least 30 mm and held in place with Ubiflex Fixing Clips. Ubiflex Extreme Fix Adhesive should be applied into the pointing gap to ensure the joint remains waterproof.

12.2 The product should be sealed to tiles, upstands, and soakers using a spot or continuous bead of Ubiflex Extreme Fix Adhesive. All leading edges should be sealed with Ubiflex Extreme Fix Adhesive.

12.3 The product should cover upstands by at least 75 mm and be sealed with a continuous bead of Ubiflex Extreme Fix Adhesive. The height of the upstand should be at least 150 mm.

12.4 When flashing a lean-to roof or chimney in a pitched roof, the flashing should be turned up no less than 75 mm and extend down the slope at least 150 mm (200 mm for pitches below 25° or exposed areas), and be sealed to the roof covering.

12.5 At the junction of chimney and ridge, a separate saddle flashing is required. The flashing should extend down both sides of the roof by no less than 150 mm and along the ridge by no less than 150 mm. The flashing edge which is beneath the ridge tile should be turned back to form a welted weather check.

### 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.

### 14 Tests

Tests were carried out and the results assessed to determine:

- dimensional checks
- weight per unit area
- water absorption
- tensile strength and elongation at break
- resistance to tear
- dimensional stability
- resistance to water penetration
- effect of heat ageing
- water vapour transmission
- resistance to impact (soft and hard substrates).

### 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 results of a fire test in accordance with BS 476-3 : 2004.

15.3 An assessment was made of existing data on:

- bending characteristics
- effect of exposure to bitumen
- low temperature foldability
- deformation under compressive load
- effect of moisture
- watertightness of joints
- shear resistance of joints
- resistance to UV exposure and colour stability
- resistance to wind uplift.
- effect of embossing at low temperatures.

## 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*

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

### 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.