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Agrément Certificate

18/5531

Product Sheet 1

METRA FLASHINGS

METZ FLASHING

This Agrément Certificate Product Sheet⁽¹⁾ relates to Metz Flashing, a polyurethane coated zinc alloy 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 — the product, when used as part of a complete roof, 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 national Building Regulations (see section 7).

Strength — the product has adequate strength to resist the loads associated with 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 First issue: 30 May 2018

John Albon – Head of Approvals
Construction Products

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
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.*

Any photographs are for illustrative purposes only, do not constitute advice and should not be relied upon.

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Regulations

In the opinion of the BBA, Metz 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)

Requirement:	B4(2)	External fire spread
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.
Requirement:	C2(b)	Resistance to moisture
Comment:		The product will contribute to a roof satisfying this Requirement. See section 6 of this Certificate.
Regulation:	7	Materials and workmanship
Comment:		The product is acceptable. See section 10.1 and the <i>Installation</i> part of this Certificate.



The Building (Scotland) Regulations 2004 (as amended)

Regulation:	8(1)(2)	Durability, workmanship and fitness of materials
Comment:		The product can contribute to a construction satisfying the requirements of this Regulation. See sections 9 and 10.1 and the <i>Installation</i> part of this Certificate.
Regulation:	9	Building standards applicable to construction
Standard:	2.8	Spread from neighbouring buildings
Comment:		The product can be regarded as having a low vulnerability, with reference to clause 2.8.1 ⁽¹⁾⁽²⁾ of this Standard, and will not affect the fire rating of the roof construction. See section 7 of this Certificate.
Standard:	3.10	Precipitation
Comment:		The product will contribute to a roof satisfying clauses 3.10.1 ⁽¹⁾⁽²⁾ , 3.10.7 ⁽¹⁾⁽²⁾ and 3.10.8 ⁽¹⁾⁽²⁾ of this Standard. See section 6 of this Certificate.
Standard:	7.1(a)(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.
Regulation:	12	Building standards applicable to conversions
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(a)(i)	Fitness of materials and workmanship
Comment:	(iii)(b)(i)	The product is acceptable. See section 10.1 and the <i>Installation</i> part of this Certificate.
Regulation:	28(b)	Resistance to moisture and weather
Comment:		The product will contribute to a roof satisfying this Regulation. See section 6 of this Certificate.

Regulation:	36(b)	External fire spread
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.	

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, Metz 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 Metz Flashing is a polyurethane coated zinc alloy with a self-adhesive backing for adhesion to surfaces.

1.2 The flashing has a thickness of 1.1 mm with a weight per unit area of 4.43 kg·m⁻² and is manufactured to the dimensions given in Table 1. The product is available in a lead grey colour.

Table 1 Product dimensions

Width (mm)	Length (m)	Roll weight (kg)
150	10	6.64
240	10	10.63
300	10	13.29
440	10	19.49

1.3 Ancillary items necessary for use with the product, and included in the scope of this Certificate, are :

- sealant — for use in joints and sealing to the substrate
- Universal Primer — for use in priming bricks prior to applying the product.

2 Manufacture

2.1 The product is manufactured by coating the top surface of soft zinc coils with polyurethane paint. The back face is finished with a self-adhesive backing.

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 TUV NORD CERT GmbH (Certificate 04 100 930312).

3 Delivery and site handling

3.1 The product is distributed on shrink-wrapped pallets. The label inside each spool of the roll has the dimensions, production batch code and production date, and on the main label the BBA logo incorporating the number of this Certificate is shown.

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 Metz Flashing.

Design Considerations

4 Use

4.1 Metz Flashing, when used 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, stepped flashings, chimneys 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 readily by roofing contractors experienced with this type of product.

6 Weathertightness



Metz 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 When tested, samples of the product gave a PCS value* of less than 4.0 MJ·m⁻². The product, in grey colour, can therefore be considered to fulfil all the requirements for the characteristic external fire performance for roof coverings without the need for further testing, in accordance with Annex of Commission Decision 2000/553/EC, and is therefore unrestricted by the requirements of the national Building Regulations.

7.2 The product has a class A1 rating in accordance with EN 13501-1 : 2007.

8 Strength

The product will resist the 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, prior to completion of the roof covering, by following the Certificate holder's instructions.

10 Durability



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

10.2 Extensive exposure to sunlight will cause some fading of the coating.

10.3 The product should not be used in coastal areas (within 5 km of the sea).

Installation

11 General

11.1 Metz 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, by bossing around shapes using a wooden or plastic mallet, or folding as required. Gloves should be worn at all times for protective measures. It can be cut with a sharp knife, sharp scissors or tin snips.

12 Procedure

12.1 The surface to be adhered should be clean, dry and free from dust. Universal Primer should be used on brick surfaces.

12.2 The product is installed by removing the plastic backing sheet to expose the adhesive underneath. Care is required to ensure that it is accurately positioned, as removal will be problematic after placing.

12.3 It can be chased into concrete/brickwork as per conventional good practice. Chases should be sealed with sealant compatible with the surface.

12.4 Overlaps should be a minimum 75 mm and, if required, the product can be overlapped to increase the width of the required flashing.

12.5 The product should cover upstands by at least 75 mm and be sealed to the substrate with a continuous bead of sealant. The height of the upstand should be at least 150 mm.

13 Repair

Damage to the product must be repaired 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:

- mass per unit area
- dimensions
- tensile strength and elongation
- low temperature foldability
- resistance to peel from support
- effect of heat ageing
- effect of water exposure
- resistance to UV ageing and colour stability
- resistance to water penetration
- resistance to sulfur dioxide
- resistance to chipping
- resistance to salt spray
- ease of forming
- impact resistance.

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 performance of the product.

15.3 The practicability of installation of the product was assessed.

Bibliography

BS 5534 : 2014 + A2 : 2018 *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*

BS EN 13501-1 : 2007 + A1 : 2009 *Fire classification of construction products and building elements — Classification using test data from reaction to fire 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.