

Easy-Trim Roofing and Construction Products Ltd

Unit 12B Metcalf Drive
Altham Industrial Park
Altham
Lancashire BB5 5TU

Tel: 0845 034 6012 Fax: 0845 034 6010
e-mail: technical@easy-trim.co.uk
website: www.easytrim.co.uk



Agrément Certificate
16/5309
Product Sheet 1

LEAD-FREE FLASHINGS

EASY-TRIM LEAD R

This Agrément Certificate Product Sheet⁽¹⁾ relates to Easy-Trim Lead R, a polyester coil coated aluminium sheet with an adhesive backing, for use at abutments, stepped flashings, dormers and chimneys on 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 completed 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 — test results indicate that 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 the installation of the roof and in service (see section 8).

Durability — under normal service conditions, the product will have an expected 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

A handwritten signature in black ink, appearing to read 'John Albon'.

Date of First issue: 4 May 2016

John Albon — Head of Approvals
Construction Products

A handwritten signature in black ink, appearing to read 'Claire Curtis-Thomas'.

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.

British Board of Agrément
Bucknalls Lane
Watford
Herts WD25 9BA

tel: 01923 665300
fax: 01923 665301
clientservices@bba.star.co.uk
www.bbacerts.co.uk

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Regulations

In the opinion of the BBA, Easy-Trim Lead R, 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:	Tests indicate that 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 meeting this Requirement. See section 6 of this Certificate.
Regulation : 7	Materials and workmanship
Comment:	The product is acceptable. See section 10 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 use of the product satisfies the requirements of this Regulation. See sections 9 and 10 and the <i>Installation</i> part of this Certificate.
Regulation: 9	Building standards applicable to construction
Standard: 2.8	Spread from neighbouring buildings
Comment:	Tests indicate that the product can be regarded as having a low vulnerability, with reference to clause 2.8.1 ⁽¹⁾⁽²⁾ , 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⁾ and 3.10.8 ⁽¹⁾⁽²⁾ of this Standard. See section 6 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 applicable to conversions
Comment:	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⁾⁽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)(iii)(b)(i)	Fitness of materials and workmanship
Comment:	The product is acceptable. See section 10 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:	Tests indicate that the product, when used as part of a complete roof construction, 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) 2007

Information in this Certificate may assist the client, Principal Designer/CDM co-ordinator, designer and contractors to address their obligations under these Regulations.

See section: 1 *Description* (1.2) of this Certificate.

Additional Information

NHBC Standards 2016

NHBC accepts the use of Easy-Trim Lead R, provided it is installed, used and maintained in accordance with this Certificate, in relation to *NHBC Standards*, Chapter 6.8 *Fireplaces, chimneys and flues*, and Chapter 7.2 *Pitched roofs*.

Technical Specification

1 Description

1.1 Easy-Trim Lead R is a polyester coil coated aluminium sheet, fully covered with butyl adhesive on the lower surface, protected by a release paper.

1.2 The rolls are available with nominal characteristics of:

Roll length ⁽¹⁾ (m)	5.0
Roll width ⁽¹⁾ (mm)	150, 300, 450, 600
Thickness (mm)	1.42 (smooth finish) and 3.2 mm (corrugated finish)
Weight of roll (kg)	1.7, 3.5, 5.5 and 7.5 (smooth and corrugated finish)
Colours	Red, Black, Brown, Light grey and Lead grey
Finish	Structured, Corrugated or Smooth.

(1) Other widths and lengths are available to order.

1.3 Other items or components which may be used with the product, but which are outside the scope of this Certificate, are:

- Easy-Trim Bitumen primer for use on unstable or uneven substrates
- Easy-Trim Lead S silicone sealant for jointing.

2 Manufacture

2.1 The product is manufactured from polyester colour coil coated aluminium, covered on the lower face with butyl adhesive and a release paper.

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 ČSN EN ISO 9001 : 2009 by Bureau Veritas (Certificate CZ00484-3-1).

3 Delivery and site handling

3.1 The product is distributed in boxed rolls. The boxes are marked with the size, colour, product name, barcode, number of rolls per box and the BBA logo including the number of this Certificate.

3.2 The rolls 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 Easy-Trim Lead R.

Design Considerations

4 Use

4.1 Easy-Trim Lead R, when designed and installed in accordance with the relevant parts of BS 5534 : 2014 and BS 8000-6 : 1990, is satisfactory for use in flashing applications such as side abutments, stepped flashings, dormers and chimneys, to provide a weatherproof junction.

4.2 Where the product is likely to come into contact with aggressive chemicals (such as acid, alkali, oil and 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 is designed to be installed by competent roofing slaters and tilers.

6 Weathertightness



The product, 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 meeting the requirements of the national Building Regulations.

7 Properties in relation to fire



Samples of Easy-Trim Lead R, when tested in accordance with BS 476-3 : 2004, achieved an A rating for surface spread of flame.

8 Strength

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

9 Maintenance



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 retain its integrity for a period of at least 20 years.

Installation

11 General

11.1 Installation of Easy-Trim Lead R must be strictly in accordance with the Certificate holder's instructions and the relevant recommendations of BS 5534 : 2014 and BS 8000-6 : 1990.

11.2 The product can be used in a similar way to traditional lead flashing. It can be installed and worked in any direction using a mallet or roller or by hand. Cutting is achieved with scissors or a sharp knife without the need for protective measures.

11.3 Cutting, folding and working with a lead dresser can be carried out to a minimum temperature of 5°C.

11.4 Surfaces must be clean and dry, and any loose material removed to ensure proper adhesion. Unstable substrates should be primed using Easy-Trim Bitumen primer.

11.5 The release film on the back of the product should be left in place until the final shape and position has been determined. Once positioned, the release film is removed and the product dressed into the brickwork or applicable surface.

11.6 Joints should have a minimum overlap of 100 mm.

11.7 Where top edges are exposed, a silicone sealant is applied to prevent ingress of rainwater behind the flashing and protected with a cover flashing, unless it is turned into the joints of the brickwork.

Technical Investigations

12 Tests

Tests were carried out on Easy-Trim Lead R and the results assessed to determine:

- width and thickness
- weight per unit area
- tensile strength and elongation on control samples, on samples after UVB ageing, and on samples after heat ageing for 12 weeks at 80°C
- tear resistance
- low temperature foldability on control samples, and after heat ageing for 12 weeks at 80°C
- dimensional stability
- water vapour transmission
- water absorption
- ash content
- peel strength from brick and concrete substrates
- adhesion test
- effect of accelerated weathering and colour stability.

13 Investigations

13.1 An evaluation was made of existing data on fire performance to BS 476-3 : 2004.

13.2 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.

13.3 A survey of known users was carried out to assess the performance in use.

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 8000-6 : 1990 *Workmanship on building sites — Code of practice for slating and tiling of roofs and claddings*

ČSN EN ISO 9001 : 2009 *Quality management systems — Requirements*

Conditions of Certification

14 Conditions

14.1 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 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.

14.2 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.

14.3 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.

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

14.5 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.

14.6 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.