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Agrément Certificate

86/1671

Product Sheet 4

ALUMASC RAINWATER SYSTEMS

ALUMASC POLYESTER COATED RAINWATER SYSTEMS

PRODUCT SCOPE AND SUMMARY OF CERTIFICATE

This Certificate relates to Alumasc Polyester Coated Rainwater Systems, for use as eaves guttering for conveying rainwater from roofs.

AGRÉMENT 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

Compatibility — the coating protects aluminium from corrosive substances (see section 5).

Location — the coating is abrasion resistant enabling downpipes to be used at ground level (see section 6).

Durability — the systems will have a life expectancy of at least 20 years in 'normal' environments (see section 8).

The BBA has awarded this Agrément 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

Brian Chamberlain
Head of Approvals — Engineering

Greg Cooper
Chief Executive

Date of First issue: 14 March 2011

Originally certified on 28 November 1988

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, Alumasc Polyester Coated Rainwater Systems, if used in accordance with the provisions of this Certificate, will meet or contribute to meeting the relevant requirements of the following Building Regulations:



The Building Regulations 2010 (England and Wales)

Requirement:	H3	Rainwater drainage
Comment:		See sections 3.1 to 3.3 and 6 of this Certificate.
Requirement:	Regulation 7	Materials and workmanship
Comment:		The systems are acceptable. See sections 8.1 and 8.2 and the <i>Installation</i> part of this Certificate.



The Building (Scotland) Regulations 2004 (as amended)

Regulation:	8(1)(2)	Fitness and durability of materials and workmanship
Comment:		The systems can contribute to a construction satisfying this Regulation. See sections 3.1 to 3.3, 6, 7.1 to 7.4, 8.1, 8.2 and 9 and the <i>Installation</i> part of this Certificate.
Regulation:	9	Building standards – construction
Standard:	3.6	Surface water drainage
Comment:		The products meet the relevant requirements of this Standard. See sections 3, 5, 6 and 7 of this Certificate.



The Building Regulations (Northern Ireland) 2000 (as amended)

Regulation:	B2	Fitness of materials and workmanship
Comment:		The systems are acceptable. See section 8.1 and 8.2 and the <i>Installation</i> part of this Certificate.
Regulation:	B3(2)	Suitability of certain materials
Comment:		The systems are acceptable. See sections 7.1 to 7.4 of this Certificate.
Regulation:	N5	Rain-water drainage
Comment:		See sections 3.1 to 3.3 and 6 of this Certificate.

Construction (Design and Management) Regulations 2007

Construction (Design and Management) Regulations (Northern Ireland) 2007

In the opinion of the BBA, there is no information in this Certificate which relates to the obligations of the client, CDM co-ordinator, designer and contractors under these Regulations.

Non-regulatory Information

NHBC Standards 2011

NHBC accepts the use of Alumasc Polyester Coated Rainwater Systems, when installed and used in accordance with this Certificate, in relation to *NHBC Standards, Part 7 Roofs* (Chapters 7.1 – D9 and 7.2 – D15).

General

This Certificate relates to Alumasc Polyester Coated Rainwater Systems for use as eaves guttering for conveying rainwater from roofs.

The systems can be installed easily and joints will be watertight. They have adequate resistance to impacts and other loads likely to occur during installation and service.

Systems designed and installed in accordance with BS EN 12056-3 : 2000 will have a satisfactory flow capacity.

The items described in this Certificate are marketed by Alumasc Exterior Building Products Ltd.

In the opinion of the British Board of Agrément, the products are suitable for their purpose.

Technical Specification

1 Description

1.1 Alumasc Polyester Coated Rainwater Systems are available in a maximum length of 3 m.

1.2 The decorative/protective polyester powder coatings are manufactured and applied in accordance with BS EN 12206-1 : 2004 in the standard colour range listed in Table 1.

Table 1 Colour range

Colour	RAL reference
Graphite grey	7024M
Agate grey	7038M
Chocolate brown	8017M
Grey brown	8019M
Vermilion	2002M
Ruby red	3003M
Wine red	3005M
Brown beige	1011M
Pearl white	1013M
White	9016M
Cadmium yellow	1021M
Sapphire blue	5003M
Flower blue	5010M
Moss green	6005M
Yellow green	6018M
Black	9017M

1.3 Articles to be coated are given an appropriate pretreatment, dried, sprayed electrostatically with the polyester powder and heat cured.

1.4 The minimum coating thickness is 50 µm.

1.5 The Certificate holder conducts continuous quality control checks, and visual and dimensional checks during the manufacture of the aluminium rainwater articles. Quality control checks on the finished coated product include tests for thickness, appearance, adhesion and impact resistance.

2 Delivery and site handling

2.1 Alumasc polyester coated rainwater products are delivered to site wrapped in polythene. Reasonable care should be taken to avoid damage to the coating during handling and installation.

2.2 In accordance with normal good practice the coated products should be stored under cover and away from the possibility of impact and the effects of the weather.

Assessment and Technical Investigations

The following is a summary of the assessment and technical investigations carried out on Alumasc Polyester Coated Rainwater Systems.

Design Considerations

3 General



3.1 Alumasc Polyester Coated Rainwater Systems are satisfactory for use as guttering systems for conveying rainwater from roofs.

3.2 The polyester powder coating is suitable for application to the Alumasc rainwater systems described in the accompanying Product Sheets.

3.3 The performance of joints, resistance to loading and flow characteristics of the coated products are unchanged from those described in the appropriate Product Sheets for the uncoated products.

4 Practicability of installation

The systems are designed to be installed by a competent general builder, or a contractor, experienced with this type of system.

5 Compatibility

5.1 The polyester powder coating is an effective barrier against contact with substances which are potentially corrosive to aluminium, ie other metals, fresh mortar or sealants.

5.2 The measures described in section 10 of the appropriate Product Sheets are necessary as the inside of the downpipe is uncoated.

5.3 The measures described in section 10 of the appropriate Product Sheets are only necessary where there are uncoated areas, such as cut ends.

6 Location



The coating is tough and abrasion resistant, hence the downpipes are suitable for use at ground level in areas readily accessible to the public (eg alongside pedestrian thoroughfares) where accidental damage is possible.

7 Maintenance



7.1 Alumasc Polyester Coated Rainwater Systems should be cleaned by hosing with water, using a mild detergent, and rinsing.

7.2 In polluted areas it will be necessary to clean the coated system at regular intervals to maintain appearance.

7.3 If a section of coated guttering or downpipe needs replacing, the difference in colour between new and old sections should be acceptable under normal circumstances.

7.4 For on-site repair of accidental damage to the coating, treatment of cut ends and for matching colours on such features as fasteners, Alumasc Enamel touch-up paint is available.

8 Durability



8.1 In the opinion of the BBA, the polyester coating on Alumasc Polyester Coated Rainwater Systems will perform effectively and will extend the ultimate life of the product beyond the 25 to 40 years described in the appropriate Product Sheets.

8.2 The coating will have a decorative life of at least 15 years in heavily polluted areas, and of at least 20 years in other areas, subject to maintenance being undertaken as described in section 7.

Installation

9 General

9.1 Installation of Alumasc Polyester Coated Rainwater Systems must be carried out in accordance with the manufacturer's instructions, BS EN 12056-3 : 2000 where applicable, and the *Installation* part of the appropriate Product Sheet for that particular design.

9.2 Joints may be made watertight using a low modulus silicone sealant, eg Dow Corning 791.

Technical Investigations

10 Tests

Tests were conducted on the coated products to determine:

- abrasion resistance
- impact resistance
- mortar resistance
- compatibility and adhesion of sealants.

11 Investigations

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

11.2 Site visits were conducted to existing sites to assess the practicability of installation and the performance in use.

11.3 An examination was made of independent test data relating to the colour stability of the coating, and an assessment was made of the durability of the system.

Bibliography

- BS EN 12206-1 : 2004 *Paints and varnishes — Coating of aluminium and aluminium alloys for architectural purposes — Coatings prepared from coating powder*
- BS EN 12056-3 : 2000 *Gravity Drainage Systems inside Buildings — Roof drainage, layout and calculation*

12 Conditions

12.1 This Certificate:

- relates only to the product/system that is named and described on the front page
- is granted only to the company, firm or person named on the front page — no other company, firm or person may hold or claim any entitlement to this Certificate
- 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.

12.2 Publications and documents referred to in this Certificate are those that the BBA deems to be relevant at the date of issue or re-issue of this Certificate and include any: Act of Parliament; Statutory Instrument; Directive; Regulation; British, European or International Standard; Code of Practice; manufacturers' instructions; or any other publication or document similar or related to the aforementioned.

12.3 This Certificate will remain valid for an unlimited period provided that the product/system and the manufacture and/or fabrication including all related and relevant 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.

12.4 In granting this Certificate, the BBA is not responsible for:

- 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
- individual installations of the product/system, including the nature, design, methods and workmanship of or related to the installation
- the actual works in which the product/system is installed, used and maintained, including the nature, design, methods and workmanship of such works.

12.5 Any information relating to the manufacture, supply, installation, use and maintenance 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 and maintained. It does not purport in any way to restate the requirements of the Health & Safety at Work etc Act 1974, or of any other statutory, common law or other duty which may exist at the date 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. In granting this Certificate, the BBA does not accept responsibility to any person or body for any loss or damage, including personal injury, arising as a direct or indirect result of the manufacture, supply, installation, use and maintenance of this product/system.