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Agrément Certificate

87/1915

Product Sheet 4 Issue 3

HAMBLESIDE DANELAW FLASHINGS

HAMBLESIDE DANELAW GRP CONTI-SOAKERS

This Agrément Certificate Product Sheet⁽¹⁾ relates to Hambleside Danelaw GRP Conti-soakers, for use in slated or tiled pitched roofs constructed in accordance with the relevant requirements of BS 5534 : 2014. The products provide a waterproof junction detail between a slate or tile roof covering and an abutment wall.

(1) Hereinafter referred to as 'Certificate'.

The assessment includes

Product factors:

- compliance with Building Regulations
- compliance with additional regulatory or non-regulatory information where applicable
- evaluation against technical specifications
- assessment criteria and technical investigations
- uses and design considerations

Process factors:

- compliance with Scheme requirements
- installation, delivery, handling and storage
- production and quality controls
- maintenance and repair

Ongoing contractual Scheme elements†:

- regular assessment of production
- formal 3-yearly review



KEY FACTORS ASSESSED

- Section 1. Mechanical resistance and stability
- Section 2. Safety in case of fire
- Section 3. Hygiene, health and the environment
- Section 4. Safety and accessibility in use
- Section 5. Protection against noise
- Section 6. Energy economy and heat retention
- Section 7. Sustainable use of natural resources
- Section 8. Durability

The BBA has awarded this Certificate to the company named above for the products described herein. These products have been assessed by the BBA as being fit for their intended use provided they are installed, used and maintained as set out in this Certificate.

On behalf of the British Board of Agrément

Date of Third issue: 25 April 2024

Originally certified on 20 September 1987

Certificate amended on 23 January 2025 to revise section 2 and associated Building Regulations.

This BBA Agrément Certificate is issued under the BBA's Inspection Body accreditation to ISO/IEC 17020. Sections marked with † are not issued under accreditation.

The BBA is a UKAS accredited Inspection Body (No. 4345), Certification Body (No. 0113) and Testing Laboratory (No. 0357).

Readers MUST check that this is the latest issue of this Agrément Certificate by either referring to the BBA website or contacting the BBA directly.

The Certificate should be read in full as it may be misleading to read clauses in isolation.

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

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SUMMARY OF ASSESSMENT AND COMPLIANCE

This section provides a summary of the assessment conclusions; readers should refer to the later sections of this Certificate for information about the assessments carried out.

Compliance with Regulations

Having assessed the key factors, the opinion of the BBA is that Hambleside Danelaw GRP Conti-soakers, 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 Building Regulations 2010 (England and Wales) (as amended)

Requirement:	B4(2)	External fire spread
Comment:		On suitable substructures, the use of the products may enable a roof to be unrestricted under this Requirement. See section 2 of this Certificate.
Requirement:	C2(b)	Resistance to moisture
Comment:		The products will contribute to a roof satisfying this Requirement. See section 3 of this Certificate.
Regulation:	7(1)	Materials and workmanship
Comment:		The products are acceptable. See sections 8 and 9 of this Certificate.



The Building (Scotland) Regulations 2004 (as amended)

Regulation:	8(1)	Fitness and durability of materials and workmanship
Comment:		The use of the products satisfies the requirements of this Regulation. See sections 8 and 9 of this Certificate.
Regulation:	9	Building standards - construction
Standard:	2.8	Spread from neighbouring buildings
Comment:		When applied to a suitable substructure, the products may enable a roof to be unrestricted under clause 2.8.1 ⁽¹⁾⁽²⁾ of this Standard. See section 2 of this Certificate.
Standard:	3.10	Precipitation
Comment:		The products will contribute to satisfying this Standard, with reference to clauses 3.10.1 ⁽¹⁾⁽²⁾ and 3.10.8 ⁽¹⁾⁽²⁾ . See section 3 of this Certificate.
Standard:	7.1(a)	Statement of sustainability
Comment:		The products can contribute to satisfying 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 - conversion
Comment:		All comments given for the products 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(1)(a)(i)	Fitness of materials and workmanship
Comment:	(iii)(b)(i)	The products are acceptable. See sections 8 and 9 of this Certificate.
Regulation:	28(b)	Resistance to moisture and weather
Comment:		The use of the products will enable a roof to satisfy the requirements of this Regulation. See section 3 of this Certificate.
Regulation:	36(b)	External fire spread
Comment:		On a suitable substructure, the use of the products may enable a roof to be unrestricted under this Regulation. See section 2 of this Certificate.

Additional Information

NHBC Standards 2024

In the opinion of the BBA, Hambleside Danelaw GRP Conti-soakers, if installed, used and maintained in accordance with this Certificate, can satisfy or contribute to satisfying the relevant requirements in relation to *NHBC Standards, 7.2 Pitched roofs*.

Fulfilment of Requirements

The BBA has judged Hambleside Danelaw GRP Conti-soakers to be satisfactory for use as described in this Certificate. The products have been assessed to provide a waterproof junction detail between a slate or tile roof covering and an abutment wall.

ASSESSMENT

Product description and intended use

The Certificate holder provided the following description for the products under assessment. Hambleside Danelaw GRP Conti-soakers consist of glass fibre-reinforced polyester laminates in a range of profiles (see Figure 1).

The product codes are:

- CST – Conti-soaker for tile roofs
- CSS – Conti-soakers for slate roofs
- SCSS – Conti-soakers for Scottish slate roofs
- CSTC – Conti-soakers for verge clipped tiles.

A mortar bonding strip is integrated onto the upper surface to provide a key for bedding the roof tiles in mortar and slates, if required.

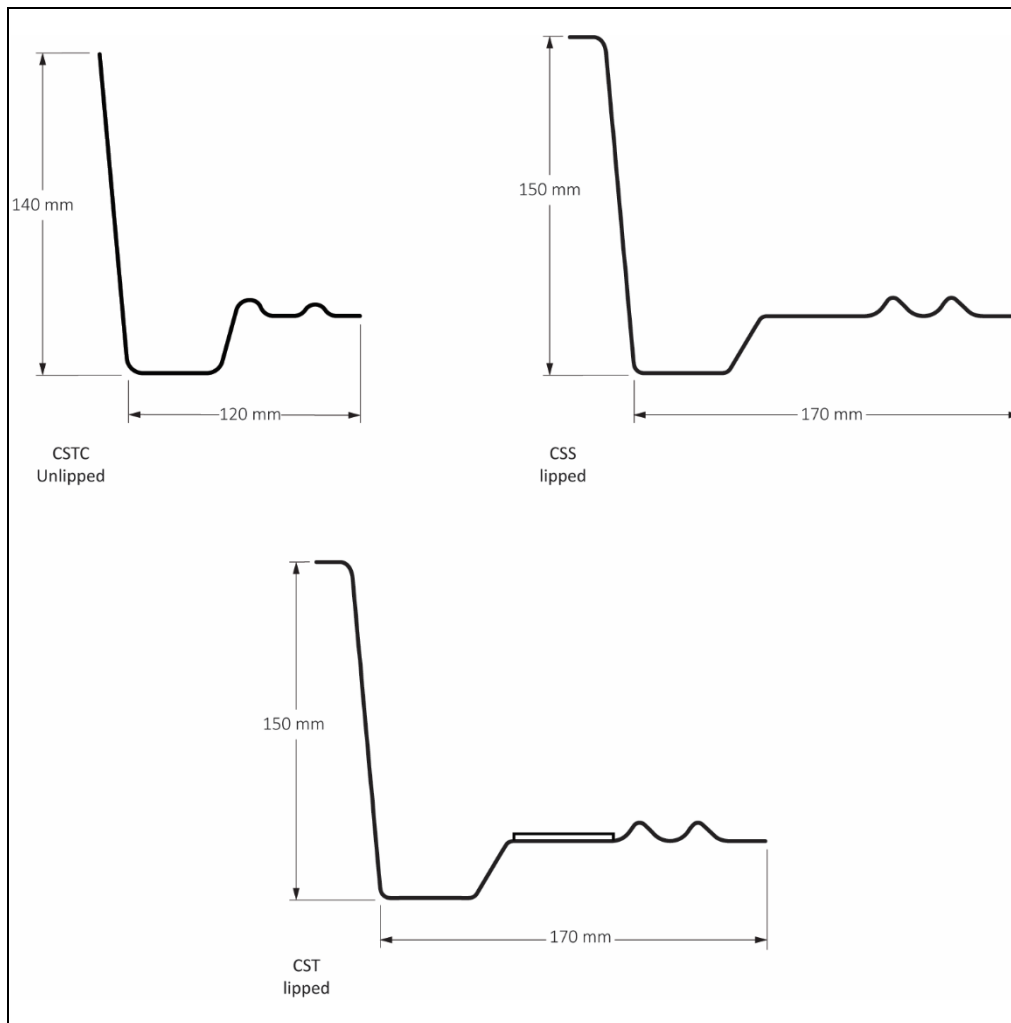
The products are supplied in 3 m lengths.

A lip along the upper edge is included to provide fitment into a groove cut in the abutment. However, soakers without this lip can be supplied for use with GRP or stepped lead cover flashings.

The products are finished in Anthracite Grey with a laminated film on the upper surface, giving a gloss finish.

The CSTC Conti-soaker for verge clipped tiles is supplied unclipped and is reduced in width to allow the use of a wide range of verge clip designs.

Figure 1 GRP Conti-soakers



Ancillary Items

The Certificate holder recommends the following ancillary items for use with the products, but these materials have not been assessed by the BBA and are outside the scope of this Certificate:

- sealant or mastic
- step and cover flashing.

Definitions for products and applications inspected

Pitched roofs are defined for the purpose of this Certificate as a roof having a fall in excess of 1:6.

Product assessment – key factors

The products were assessed for the following key factors, and the outcome of the assessment is shown below. Conclusions relating to the Building Regulations apply to the whole of the UK unless otherwise stated.

1 Mechanical resistance and stability

Data were assessed for the following characteristics.

1.1 Strength and stability

1.1.1 Results of strength and stability tests are given in Table 1.

Table 1 Results of strength and stability tests

Product assessed	Assessment method	Requirement	Result
Hambleside Danelaw GRP sheet	Cross breaking strength to	Value achieved	
	BS 2782-10 : Method 1005 : 1977		
	Control		
	Flexural strength		207 N·mm ⁻²
	Deflection at break		1.77 mm
	Barcol hardness to	Value achieved	47.2
	BS 2782-10 : Method 1001 : 1977		
	Control (smooth) tested at 23°C and 50% RH		
	Hard body impact to MOAT 22 : 1988	No significant damage	Pass

1.1.2 On the basis of data assessed, Hambleside Danelaw GRP Conti-soakers will resist the normal loads and impacts associated with installation and use.

2 Safety in case of fire

Data were assessed for the following characteristics.

2.1 External fire spread

2.1.1 The result of an external fire spread test is given in Table 2.

Table 2 External fire spread test

Product assessed	Assessment method	Requirement	Result
18 mm OSB ⁽²⁾	Tested to DD CEN/TS 1187 : 2012,	Value achieved	B _{ROOF} (t4)
Spun bonded polypropylene ⁽²⁾	Test 4 and classified in accordance		
GRP layer - representative	with BS EN 13501-5 : 2005 for		
related product	pitched ≥ 10°		

(1) Test report reference R240184, issued by Attain RTC Limited, available from the Certificate holder on request.

(2) These components are outside the scope of this Certificate.

2.1.2 On the basis of data assessed, the products are unrestricted by the documents supporting the national Building Regulations with respect to proximity to a relevant boundary.

2.1.3 This classification can be affected by other components of the roof, eg insulation materials, substrates/decking and membranes. These constructions must therefore be evaluated by reference to the requirements of the documents supporting the relevant national Building Regulations and any consequent restrictions imposed by those documents, on a case-by-case basis.

2.2 Reaction to fire

2.2.1 The Certificate holder has not declared a reaction to fire classification for the products to BS EN 13501-1 : 2018.

2.2.2 Designers must refer to the relevant national Building Regulations and guidance for detailed conditions of use, particularly in respect of substrate fire performance, cavity barriers, service penetrations and combustibility limitations for other materials and components used in the overall construction.

3 Hygiene, health and the environment

Data were assessed for the following characteristics.

3.1 Weathertightness

3.1.1 The results of a weathertightness test is given in Table 3.

Table 3 Result of a weathertightness test

Product assessed	Assessment method	Requirement	Result
Hambleside Danelaw GRP sheet	Water penetration at laps to BBA internal method	No leakage	Pass

3.1.2 On the basis of data assessed, Hambleside Danelaw GRP Conti-soakers, when completely sealed, will adequately resist the passage of moisture to the inside of the building and so satisfy the relevant requirements of the national Building Regulations.

4 Safety and accessibility in use

Not applicable.

5 Protection against noise

Not applicable.

6 Energy economy and heat retention

Not applicable.

7 Sustainable use of natural resources

Not applicable.

8 Durability

8.1 The potential mechanisms for degradation and the known performance characteristics of the materials in the products were assessed.

8.2 Specific test data were assessed, as given in Table 4.

Table 4 Results of durability tests

Product assessed	Assessment method	Requirement	Result
Hambleside Danelaw GRP sheet	Cross breaking strength to BS 2782-10 : Method 1005 : 1977 - Water boil for 2 hours to MOAT 9 : 1973	No significant loss of properties following ageing	Pass
	Cross breaking strength to BS 2782-10 : Method 1005 : 1977 - 30 days water soak to MOAT 9 : 1973	No significant loss of properties	Pass
	Barcol hardness to BS 2782-10 : Method 1001 : 1977 - Water boil for 2 hours to MOAT 9 : 1973	No significant loss of properties following ageing	Pass

8.3 Service life

Under normal service conditions, the products will have a life of at least 20 years, provided they are designed, installed and maintained in accordance with this Certificate and the Certificate holder's instructions.

Information provided by the Certificate holder was assessed for the following factors:

9 Design, installation, workmanship and maintenance

9.1 Design

9.1.1 The design process was assessed by the BBA and the following requirements apply in order to satisfy the performance specified in this Certificate.

9.1.2 The products must be designed in accordance with the relevant parts of BS 5534 : 2014, BS 8000-0 : 2014 and BS 8000-6 : 2023.

9.2 Installation

9.2.1 Installation instructions provided by the Certificate holder were assessed and judged to be appropriate and adequate.

9.2.2 Installation of Hambleside Danelaw GRP Conti-soakers must be in accordance with this Certificate, the Certificate holder's instructions and the relevant recommendations of BS 5534 : 2014, BS 8000-0 : 2014, BS 8000-6 : 2023.

Procedure

9.2.3 The roof and abutment must be made good, and the underlay run up the abutment approximately 100 mm. Battens must be cut short to allow a 60 mm gap between the counter batten and the abutment, and be supported by noggings or bearers as necessary.

9.2.4 The abutment is marked by using the product as a measure and routed to a depth of 30 mm when using lipped versions.

9.2.5 The product is cut to length, allowing a 150 mm overlap when measured vertically at each joint. An additional overlapped joint may be necessary to accommodate the change in roof angle near the soffit.

9.2.6 The product is laid along the abutment, and its outside edge nailed to the battens through pre-drilled holes.

9.2.7 Slates are laid in the normal manner directly over the soaker water bars. Tiles are bedded onto mortar laid along the mortar bonding strip. In each case, a minimum gap of 25 mm must be left over the water channel (see Figures 3 and 4).

Lipped Conti-soakers - Product codes CST and CSS

9.2.8 The lipped edge is wedged or fixed securely and sealed into the chase using a high-quality external grade sealant or mastic.

Figure 2 Slate installation

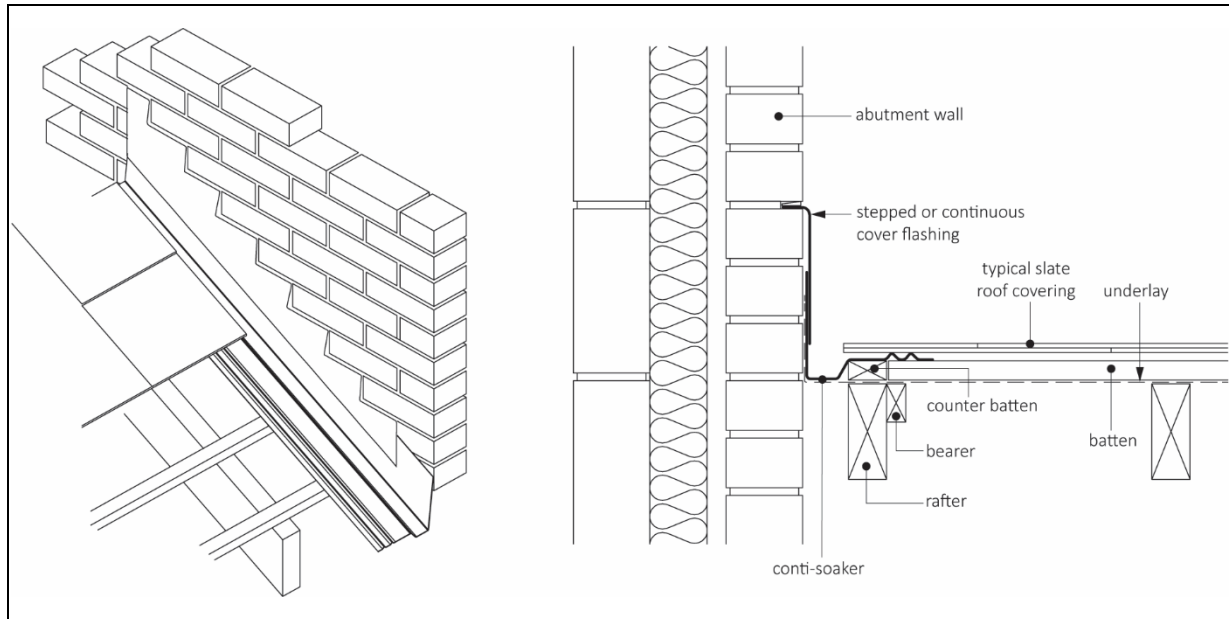
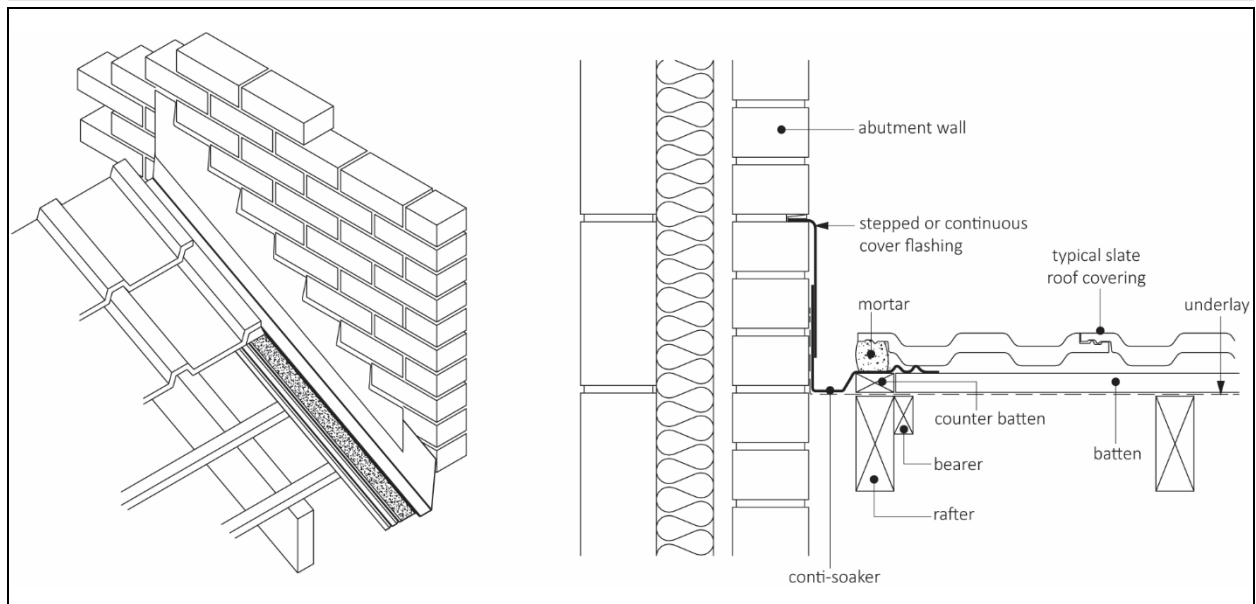


Figure 3 Tile installation



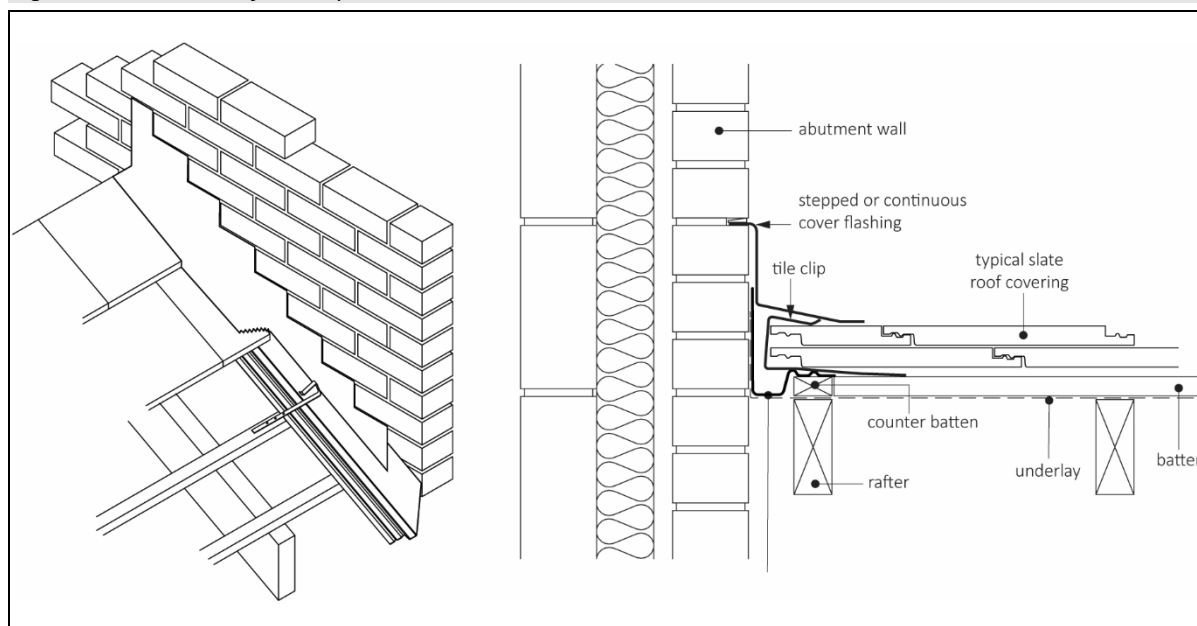
Unlipped Conti-soakers - Product codes CST and CSS

9.2.9 The upstand face to the product must have stepped or continuous lead or GRP cover flashing fitted into the abutment wall and dressed over to provide adequate cover.

Conti-soakers for verge clipped tiles - Product code CSTC

9.2.10 Where flat tiles are laid dry fixed and secured with verge clips, the product allows the installation of verge clips to be fixed without penetrating the water channels of the profile. A step and cover flashing onto the tiles must be provided to complete the installation.

Figure 4 Installation of Tile Clips Install



9.3 Workmanship

Practicability of installation was assessed by the BBA, on the basis of the Certificate holder's information and site visits to witness installations in progress. To achieve the performance described in this Certificate, installation of the products must be carried out by roofers experienced with these type of products.

9.4 Maintenance and repair

9.4.1 Ongoing satisfactory performance of the products in use requires that they are suitably maintained. The guidance provided by the Certificate holder was assessed by the BBA and found to be appropriate and adequate. The following requirements apply to satisfy the performance assessed in this Certificate:

9.4.2 As the products are fully or partially confined and have suitable durability, maintenance is not required.

9.4.3 Damaged lengths can be replaced without having to remove adjacent lengths.

10 Manufacture

10.1 The production processes for the products have been assessed, and provide assurance that the quality controls are satisfactory according to the following factors:

10.1.1 The manufacturer has provided documented information on the materials, processes, testing and control factors.

10.1.2 The quality control operated over batches of incoming materials has been assessed and deemed appropriate and adequate.

10.1.3 The quality control procedures and product testing to be undertaken have been assessed and deemed appropriate and adequate.

10.1.4 The process for management of non-conformities has been assessed and deemed appropriate and adequate.

10.1.5 An audit of each production location was undertaken, and it was confirmed that the production process was in accordance with the documented process, and that equipment has been properly tested and calibrated.

† 10.2 The BBA has undertaken to review 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.

11 Delivery and site handling

11.1 The Certificate holder stated that the products are delivered to site in packs of 10 units bearing the application instructions, size and the BBA logo incorporating the number of this Certificate.

11.2 Delivery and site handling must be performed in accordance with the Certificate holder's instructions and this Certificate, including:

11.2.1 The packs must be stored flat or on end, on a smooth, clean, dry surface, under cover and protected from sunlight.

† ANNEX A – SUPPLEMENTARY INFORMATION

Supporting information in this Annex is relevant to the products but has not formed part of the material assessed for the 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.

Management Systems Certification for production

The management system of the manufacturer has been assessed and registered as meeting the requirements of BS EN ISO 9001 : 2015 by BSI (Certificate FM 23063).

Bibliography

BS 2782-10 : Method 1001 : 1977 *Methods of testing plastics — Glass reinforced plastics— Measurement of hardness by means of a Barcol impressor*

BS 2782-10 : Method 1005 : 1977 *Methods of testing Plastics — Part 10: Glass reinforced plastics — Method 1005: Determination of flexural properties — Three-point method*

BS 5534 : 2014 + A2 : 2018 *Slating and tiling for pitched roofs and vertical cladding. Code of practice*

BS 8000-0 : 2014 *Workmanship on construction sites. Introduction and general principles*

BS 8000-6 : 2023 *Workmanship on construction sites. Slating and tiling of roofs and walls. Code of practice*

BS EN 13501-1 : 2018 *Fire classification of construction products and building elements. Part 1: Classification using data from reaction to fire tests*

BS EN 13501-5 : 2005 *Fire classification of construction products and building elements - Part 5: Classification using data from external fire exposure to roofs tests*

BS EN ISO 9001 : 2015 *International Standard for Quality Management Systems*

CEN/TS 1187 : 2012 *Test methods for external fire exposure to roofs*

MOAT 9 : 1973 *Directive for the Assessment of Products in Glass-Reinforced Polyester for use in Building.*

MOAT 22 : 1988 *UEAtc Technical Guide for the Assessment of Non-Reinforced, Reinforced and/or Backed Roof Waterproofing Systems made of EPDM*

Conditions of Certificate

Conditions

1 This Certificate:

- relates only to the product 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.

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.

3 This Certificate will be displayed on the BBA website, and the Certificate Holder is entitled to use the Certificate and Certificate logo, provided that the product 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.

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

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

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

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