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## Agrément Certificate

16/5378

Product Sheet 2

### SIGA AIR AND WEATHERTIGHTNESS PRODUCTS

#### SIGA-FENTRIM 330 GREY

This Agrément Certificate Product Sheet<sup>(1)</sup> relates to SIGA-Fentrim 330 Grey for use as an airtight sealing tape for floor to deep window/façade element junctions in the building structure.

(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 will resist the passage of wind-driven rain, snow, run-off water and dust into the interior of the building (see section 6).

**Air barrier continuity** — the product will contribute to maintaining air barrier continuity at lintels, jambs and sills (see section 7).

**Risk of condensation** — the product can adequately limit the risk of surface condensation; the risk of interstitial condensation will depend on the construction but should be assessed for each project (see section 8).

**Resistance to damage** — the product is suitably robust so as not to be damaged during installation (see section 9).

**Durability** — the product will continue to function for the lifetime of the frame around which it is installed (see section 11).

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: 11 March 2019

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.bbacists.co.uk](http://www.bbacists.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, SIGA-Fentrim 330 Grey, 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>C2(b)</b>	<b>Resistance to moisture</b>
Comment:		The product will contribute to meeting this Requirement. See section 6 of this Certificate.
<b>Requirement:</b>	<b>C2(c)</b>	<b>Resistance to moisture</b>
Comment:		The product will contribute to meeting this Requirement with respect to interstitial condensation. See section 8 of this Certificate.
<b>Requirement:</b>	<b>L1(a)(i)</b>	<b>Conservation of fuel and power</b>
Comment:		The product can contribute to minimising heat loss at lintels, jambs and sills. See section 7 of this Certificate.
<b>Regulation:</b>	<b>7</b>	<b>Materials and workmanship (applicable to Wales only)</b>
<b>Regulation:</b>	<b>7(1)</b>	<b>Materials and workmanship (applicable to England only)</b>
Comment:		The product is acceptable. See section 11 and the <i>Installation</i> part of this Certificate.
<b>Regulation:</b>	<b>26</b>	<b>CO<sub>2</sub> emission rates for new buildings</b>
<b>Regulation:</b>	<b>26A</b>	<b>Fabric energy efficiency rates for new dwellings (applicable to England only)</b>
<b>Regulation:</b>	<b>26A</b>	<b>Primary energy consumption rates for new buildings (applicable to Wales only)</b>
<b>Regulation:</b>	<b>26B</b>	<b>Fabric performance values for new dwellings (applicable to Wales only)</b>
Comment:		The product can contribute to satisfying these Regulations. See section 7 of this Certificate.



### The Building (Scotland) Regulations 2004 (as amended)

<b>Regulation:</b>	<b>8(1)</b>	<b>Durability, workmanship and fitness of materials</b>
Comment:		The use of the product can contribute to satisfying the requirements of this Regulation. See section 11 and the <i>Installation</i> part of this Certificate.
<b>Regulation:</b>	<b>9</b>	<b>Building standards applicable to construction</b>
<b>Standard:</b>	<b>3.10</b>	Precipitation
Comment:		The product will resist the effects of driving rain and enable an installation to satisfy the requirements of this Standard, with reference to clause 3.10.1 <sup>(1)(2)</sup> . See section 6 of this Certificate.
<b>Standard:</b>	<b>3.15</b>	Condensation
Comment:		The product can contribute to minimising the risk of interstitial and surface condensation, with reference to clauses 3.15.1 <sup>(1)</sup> , 3.15.4 <sup>(1)</sup> and 3.15.5 <sup>(1)</sup> . See section 8 of this Certificate.
<b>Standard:</b>	<b>6.1(b)</b>	Carbon dioxide emissions
<b>Standard:</b>	<b>6.2</b>	Building insulation envelope
Comment:		The product can contribute to minimising heat loss at lintels, jambs and sills. See section 7 of this Certificate.
<b>Standard:</b>	<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. In addition, the system can contribute to a construction meeting a higher level of sustainability as defined in this Standard, with reference to clauses 7.1.4 <sup>(1)(2)</sup> [Aspects 1 <sup>(1)(2)</sup> and 2 <sup>(1)</sup> ], 7.1.6 <sup>(1)(2)</sup> [Aspects 1 <sup>(1)(2)</sup> and 2 <sup>(1)</sup> ] and 7.1.7 <sup>(1)(2)</sup> [Aspect 1 <sup>(1)(2)</sup> ]. See section 7 of this Certificate.

<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> .
<small>(1) Technical Handbook (Domestic).</small> <small>(2) Technical Handbook (Non-Domestic).</small>		
		<b>The Building Regulations (Northern Ireland) 2012 (as amended)</b>
<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 11 and the <i>Installation</i> part of this Certificate.
<b>Regulation:</b>	<b>28</b>	<b>Resistance to moisture and weather</b>
Comment:		The product has adequate resistance to the ingress of rain and wind-driven spray and so can contribute towards the wall satisfying this Regulation. See section 6 of this Certificate.
<b>Regulation:</b>	<b>29</b>	<b>Condensation</b>
Comment:		The product will contribute to minimising the risk of interstitial and surface condensation. See section 8 of this Certificate.
<b>Regulation:</b>	<b>39(a)(i)</b>	<b>Conservation measures</b>
<b>Regulation:</b>	<b>40(2)</b>	<b>Target carbon dioxide emission rate</b>
Comment:		The product can contribute to minimising heat loss at lintels, jambs and sills. 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: **3 Delivery and site handling (3.3)** of this Certificate.

## Additional Information

### NHBC Standards 2019

In the opinion of the BBA, SIGA-Fentrim 330 Grey, if installed, used and maintained in accordance with this Certificate, can satisfy or contribute to satisfying the relevant requirements in relation to *NHBC Standards*, Chapter 6.9 *Curtain walling and cladding*.

## Technical Specification

### 1 Description

1.1 SIGA-Fentrim 330 Grey is a self-adhesive tape consisting of polyolefin film and fleece coated on one side with an adhesive, backed with a slit release film. The tape has the dimensions:

Length (m)	25
Width (mm)	150, 200, 300 or 400
Thickness (mm)	1.

1.2 Dockskin 200 is an optional primer used with the tape and is outside the scope of this Certificate.

## 2 Manufacture

2.1 The product is manufactured by coating a non-woven carrier with an adhesive and applying a release film.

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 product is marketed in the United Kingdom by SIGA 1966 UK Ltd, 16 Great Queen Street, Covent Garden, London WC2B 5AH, Tel: 00 41 41 499 69 69.

## 3 Delivery and site handling

3.1 The product is packaged in cartons, containing four rolls for the 150 mm wide tape and two rolls for the other roll widths, bearing the Certificate holder's name, product name and width of membrane. Each roll of product bears a label with the product name, the article number, the QR Code that links to the product webpage and batch number. The roll release liner bears the Certificate holder's name and website address.

3.2 The product should be stored in their original containers in a cool, dry place and must not be exposed to sources of heat or high temperatures.

3.3 The Certificate holder has taken the responsibility of classifying and labelling the products under the CLP Regulation (EC) No 1272/2008 on the classification, labelling and packaging of substances and mixtures. Users must refer to the relevant Safety Data Sheet(s).

### Assessment and Technical Investigations

The following is a summary of the assessment and technical investigations carried out on to SIGA-Fentrim 330 Grey.

### Design Considerations

## 4 Use

4.1 SIGA-Fentrim 330 Grey is satisfactory for use as an airtight tape for sealing between floor and window junctions in the building.

4.2 The tape is suitable for use on the following substrates:

- PVC-U and other hard plastics
- wood
- aluminium and other metal
- concrete
- masonry
- cement particle boards.

4.3 When used and installed in accordance with this Certificate and the Certificate holder's instructions, the tape can contribute towards an exterior building envelope meeting a minimum air leakage of less than  $1 \text{ m}^3 \cdot \text{hr}^{-1} \cdot \text{m}^{-2}$  @ 50 Pa (see section 7) and also less than 0.6 air change per hour @ 50 Pa for passive houses.

## 5 Practicability of installation

The product is designed to be installed by a trained competent general builder.

## 6 Weathertightness



6.1 The product will resist the passage of water, wind-driven rain and dust into the interior of a building.

6.2 When the product was tested in accordance with EN 1027 : 2000, no detectable water or moisture penetration occurred up to a pressure of 600 Pa. It therefore satisfies the Class 9A requirements of BS EN 12208 : 2000.

## 7 Air barrier continuity



The product is an air barrier and, when installed correctly, can contribute to elements and junctions minimising heat loss by unplanned air infiltration. The product has been tested according to EN 12114 : 2000 and achieved an air permeability of  $< 0.1 \text{ m}^3 \cdot (\text{m} \cdot \text{h} \cdot \text{daPa}^{2/3})^{-1}$ . In the opinion of the BBA, the air infiltration classification according to BS EN 12207 : 2016 for suitable windows used in combination with the product will be Class 4. Guidance documents in this respect can be found in the documents supporting the national Building Regulations.

## 8 Risk of condensation



The product can adequately limit the risk of surface condensation. The risk of interstitial condensation will depend on the construction but should be assessed for each project.

## 9 Resistance to damage

The product is suitably robust so as not to be damaged during installation.

## 10 Maintenance

As the product is confined within the final construction and have suitable durability (see section 11), maintenance is not required. However, any damage occurring before enclosure must be repaired (see section 14).

## 11 Durability



The product will have a life comparable with that of the installed window provided the tape is not exposed to sunlight for long periods. Advice regarding exposure can be obtained from the Certificate holder.

## Installation

## 12 General

12.1 Installation of SIGA-Fentrim 330 Grey is carried out in accordance with the Certificate holder's installation guide.

12.2 All substrates should be dry, uninterrupted, even and clean; for example, dust and loose material removed by brushing, prior to installation of the membrane to ensure an effective adhesive bond. In cases of doubt on the suitability of the substrate the advice of the Certificate holder should be sought.

## 13 Procedure

13.1 The tape is rolled out to the required length, extending between 150 to 200 mm either side of the window/façade to be sealed to allow formation of sides of trough, and cut accordingly (see Figures 1 and 2).

*Figure 1 Laying out membrane*



*Figure 2 Cutting membrane to length*



13.2 Approximately 100 mm of the release film strip is removed from the tape area to be bonded to the window (see Figure 3) element, extending the area by 150 to 200 mm either side of the bonded area.

*Figure 3 Starting removal of release film*



13.3 The film is removed slowly, ensuring the tape is correctly aligned and tension free. The tape is pressed firmly to the substrate by hand or roller (see figure 4).

*Figure 4 Removal of release film*



13.4 The remaining backing strips are removed one by one, ensuring the tape is tension free and pressed firmly against the substrate (see Figure 5).

*Figure 5 Removal of remaining release films, applied tension free*



13.5 Where necessary, detailing of the tape should follow the advice of the Certificate holder.

13.6 A typical finished installation is shown in Figure 6.

*Figure 6 Typical installation*



## **14 Repair**

Any damage to the tapes must be repaired as soon as possible, and before the application of the finishing layer(s) of the construction detail. The product may be repaired by applying a patch of the tape over the damaged area. In case of doubt, advice on a suitable repair method should be sought from the Certificate holder.

### 15 Tests

An evaluation of independent test data was made to determine:

- air permeability
- resistance to driving rain
- water vapour permeability
- tensile strength and elongation
- adhesive strength to PVC-U, brick and plaster substrates
- adhesive strength to PVC-U, brick and plaster after thermal shock cycling
- adhesive strength to PVC-U, brick and plaster after UV light and moisture exposure
- compatibility with PVC-U, brick and plaster.

### 16 Investigations

16.1 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.

16.2 The method of installation and the installation instructions have been assessed.

16.3 Data on adhesion properties to other materials of a SIGA product using the same adhesive, unaged and following ageing, were assessed.

## Bibliography

EN 1027 : 2000 *Windows and doors — Watertightness — Test method*

BS EN 12207 : 2016 *Windows and doors — Air permeability — Classification*

BS EN 12208 : 2000 *Windows and doors — Watertightness — Classification*

EN 12114 : 2000 *Thermal performance of buildings — Air permeability of building components and building elements — Laboratory test method*

## Conditions of Certification

### 17 Conditions

#### 17.1 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.

17.2 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.

17.3 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.

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

17.5 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.

17.6 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.

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