Synthesia Technology Europe, SLU

C/ Argent, 3 08755 Castellbisbal Barcelona Spain



Agrément Certificate 22/6105

Product Sheet 4 Issue 1

Tel: +34 936 821 300

e-mail: cservice@synthesia.com website: www.synthesia.com

SYNTHESIA TECHNOLOGY EUROPE POLIURETAN SPRAY S-OC-008E INSULATION

POLIURETAN SPRAY S-OC-008E FOR PITCHED ROOFS WITH HR UNDERLAYS

This Agrément Certificate Product Sheet⁽¹⁾ relates to Poliuretan Spray S-OC-008E for Pitched Roofs with HR Underlays, an in-situ spray-applied thermal insulation for use between and under timber rafters in existing domestic pitched roofs with high vapour resistance (HR) roof tile underlays.

(1) Hereinafter referred to as 'Certificate'.

The assessment includes

Product factors:

- compliance with Building Regulations
- compliance with additional regulatory or nonregulatory 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 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 issue: 15 March 2023

Hardy Giesler

Chief Executive Officer

 $This \ BBA \ Agréement \ Certificate \ is issued \ under \ the \ BBA's \ Inspection \ Body \ accreditation. \ to \ ISO/IEC \ 17020. \ Sections \ marked \ with \ <math>\dot{\tau}$ \ are not issued \ under accreditation.

The BBA is a UKAS accredited Inspection Body (No. 4345), Certification Body (No. 0113) and Testing Laboratory (No. 3537).

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.

British Board of Agrément

1st Floor Building 3 tel: 01923 665300
Croxley Park, Watford clientservices@bbacerts.co.uk
Herts WD18 8YG ©2023 www.bbacerts.co.uk

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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 Poliuretan Spray S-OC-008E for Pitched Roofs with HR Underlays, 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:

C2(c) Resistance to moisture

Comment:

The product can contribute to satisfying this Requirement. See section 3 of this

Certificate.

Requirement: Comment:

L1(a)(i) Conservation of fuel and power

The product can contribute to satisfying this Requirement; however compensating fabric

measures will be required. See section 6 of this Certificate.

Regulation: Comment:

7(1) Materials and workmanship

The product is acceptable. See sections 8 and 9 of this Certificate.



The Building (Scotland) Regulations 2004 (as amended)

Regulation:

Fitness and durability of materials and workmanship 8(1)

Comment: The product is acceptable. See sections 8 and 9 of this Certificate.

Regulation:

9 **Building standards applicable to construction**

Standard:

3.15 Condensation Comment:

The product can contribute to satisfying this Standard, with reference to clauses

 $3.15.1^{(1)}$, $3.15.3^{(1)}$, $3.15.4^{(1)}$, $3.15.5^{(1)}$ and $3.15.7^{(1)}$. See section 3 of this Certificate.

Standard:

6.2 Building insulation envelope

Comment:

The product can contribute to satisfying this Standard; with reference to clauses 6.2.1⁽¹⁾,

 $6.2.3^{(1)}$, $6.2.6^{(1)}$, $6.2.7^{(1)}$, $6.2.8^{(1)}$, $6.2.9^{(1)}$, $6.2.10^{(1)}$, $6.2.11^{(1)}$ and $6.2.12^{(1)}$; however, compensation fabric measures may be required. See section 6 of this Certificate.

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 $0.12.1^{(1)}$ and Schedule $6^{(1)}$.

(1) Technical Handbook (Domestic).



The Building Regulations (Northern Ireland) 2012 (as amended)

Regulation:

23(1)(a)

Fitness of materials and workmanship

Comment:

(i)(iii)(b)

The product is acceptable. See sections 8 and 9 of this Certificate.

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(i)(ii)

Condensation

Regulation: Comment:

The product can contribute to satisfying this Regulation. See section 3 of this Certificate.

BBA 22/6105 PS4 Issue 1 Page 2 of 13 Regulation: 39(a)(i) Conservation measures

Regulation: 43(1)(2) Renovation of thermal elements

Comment: The product can contribute to satisfying these Regulations; however, compensating

fabric measures will be required. See section 6 of this Certificate.

Fulfilment of Requirements

The BBA has judged Poliuretan Spray S-OC-008E for Pitched Roofs with HR Underlays to be satisfactory for use as described in this Certificate. The product has been assessed for use between and under timber rafters in existing domestic pitched roofs with high vapour resistance (HR) roof tile underlays.

ASSESSMENT

Product description and intended use

The Certificate holder provided the following description for the product under assessment. Poliuretan Spray S-OC-008E for Pitched Roofs with HR Underlays is an in-situ formed, spray-applied, open-cell, water-blown, low-density, semi-rigid polyurethane foam insulation, consisting of:

- isocyanate
- resin.

The product has the nominal characteristics given in Table 1.

Table 1 Nominal characteristics of Poliuretan Spray S-OC-008E		
Characteristic (unit)	Method	Value
Mixing ratio	_	1:1 by volume
Colour	_	Yellow
Maximum thickness (mm)	BS EN 823 : 2013	230
Density (kg·m⁻³)	BS EN 1602 : 2013	7-12

The product is intended for use as insulation in the following applications, on existing domestic buildings:

- on tiled or slated pitched roofs, with a roof pitch of between 10 and 70°
- between, or between and under, timber rafters in a warm pitched roof— insulation at rafter level only, with or without counter battens

Product assessment – key factors

The product was assessed for the following key factors, and the outcome of the assessments are 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 The product was tested for adhesion to the substrates given in Table 2.

Table 2 Adhesion to subst	rates		
Product assessed	Assessment method	Substrate	Result (kPa)
Poliuretan Spray S-OC-	BS EN 14315 : 2013	HR underlay	29
008E	Annex F	Softwood	21

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1.2 On the basis of data assessed, the product has adequate adhesion to the substrates intended for use in this Certificate, provided they are clean and dry prior to application. See also section 9 of this Certificate.

2 Safety in case of fire

Data were assessed for the following characteristics.

- 2.1 The product is classified as Class E reaction to fire to UNE-EN 13501-1: 2019⁽¹⁾.
- (1) LGAI Technological Center, S.A. (APPLUS), report ref 21/32307790-2, dated 3 January 2022. Copies can be obtained from the Certificate holder.
- 2.2 The product must be protected from naked flames and other ignition sources during and after installation.
- 2.3 Designers must refer to the relevant national Building Regulations and guidance for detailed conditions of use, particularly in respect of requirements for cavity closers and barriers, fire stopping of 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 Water vapour permeability

The product was tested for water vapour permeability to establish a water vapour resistance factor (μ). The results are given in Table 3.

Table 3 Water vapour resistance factor (μ)			
Product assessed	Assessment method	Requirement	Result
Poliuretan Spray S-OC-	BS EN 12086 : 2013,	Declared value	3.2
008E	Method A		

3.2 Condensation

- 3.2.1 The BBA has assessed the product for the risk of interstitial condensation and the following factors must be implemented:
- 3.2.2 The construction described in Table 4 and locations in Table 5 of this Certificate have been assessed to EN 15026: 2007. The report⁽¹⁾ concluded that the interior vapour control layer was sufficient to keep the construction at an uncritical moisture level, both concerning moisture content in the insulation itself and in the wooden construction elements.
- (1) QODA Consulting, Pitched Roof, Issue 3, 16 January 2023. Copies can be obtained from the Certificate holder.

Table 4 Construction description ⁽¹⁾	
Outside layer	Red concrete tiles
Battens	25 mm timber battens/air layer
Underlay	Roof tile underlay ($s_d = 90 \text{ m}$)
Poliuretan Spray S-OC-008E insulation thickness	150 mm (between 150 mm rafters at 600 cc) plus 80 mm (between cross battens at 600 cc)
Air and water control layer (AVCL)	Intelligent membrane with moisture dependent vapour permeability ⁽²⁾

⁽¹⁾ All materials described, with the exception of Poliuretan Spray S-OC-008E, are outside the scope of this Certificate.

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⁽²⁾ Including an envelope infiltration of $\leq 3 \text{ m}^3 \cdot \text{m}^{-2} \cdot \text{h}^{-1}$ @ 50Pa.

Table 5 Climatic conditions	
	London
Climate locations	Plymouth
	Manchester
	Aberdeen
Orientation	North
Inclination	40°
Temperature / Relative Humidity	Normal moisture load according to EN 15026 : 2007
Occupancy	Normal occupancy according to EN 15026 : 2007

3.2.3 In situations where the construction components and/or climate conditions differ from the above simulation, a condensation risk assessment must be undertaken. This assessment must include modelling by a suitably qualified and experienced individual, using a dynamic hygrothermal simulation software package in accordance with EN 15026: 2007. Particular attention must be given to the following components:

- slates/tiles material type, thickness, condition, colour
- roof tile underlay material type, thickness, water vapor resistance
- insulation exact thickness installed, ratio of timber to insulation
- timber rafters and additional battens condition, moisture content
- AVCL water vapour permeability value, number of penetrations, airtightness, quality of installation
- internal finish material type, thickness, condition, surface finish
- project-specific climate location
- building orientation
- project-specific topography
- building use internal moisture load, occupancy rate, ventilation rate
- solar radiation on the building.

4 Safety and accessibility in use

Not applicable.

5 Protection against noise

Not applicable.

6 Energy economy and heat retention

Data were assessed for the following characteristics.

6.1 Thermal conductivity

The product was tested to BS EN 14315-1 : 2013 and BS EN 12667 : 2001 and has a declared thermal conductivity of 0.039 $W \cdot m^{-1} \cdot K^{-1}$.

6.2 Thermal performance

6.2.1 The U value of a completed roof will depend on the insulation thickness, its structure, and its internal finish. Example U values are given in Table 6.

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Table 6 II values — warm nitched roofs	(insulation at rafter level only, with sloping ceiling) ⁽¹⁾
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Design U value $(W \cdot m^{-2} \cdot K^{-1})$	Poliuretan Spray S-OC-008E thickness
0.12	(2)
0.16	(2)
0.18	(2)
0.20	200 mm between rafters + 30 mm between additional battens

⁽¹⁾ Pitched roof construction — tiles on 25 mm timber tile battens on high-resistance (HR) bituminous roof tile underlay on 47 by 150 mm timber rafters, with additional battens as required (λ = 0.13 W·m⁻¹·K⁻¹), at 400 mm centres (12.8%); insulation; AVCL; and 12.5 mm plasterboard (λ = 0.25 W·m⁻¹·K⁻¹).

- 6.2.2 The product can contribute towards a construction satisfying the national Building Regulations in respect of energy economy and heat retention.
- 6.2.3 For improved energy or carbon savings, designers should consider appropriate fabric and/or services measures.

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 this product were assessed.
- 8.2 Data were assessed for the following characteristics:

Table 7 Dimensional s	tability and water absorption		
Product assessed	Assessment method	Requirement	Result
Poliuretan Spray S-	Dimensional stability to	Length and width	PASS
OC-008E	BS EN 1604 : 2013	<15 % change	
	(70°C and 90-100% RH for 48 hours)	Thickness <10 % change	
Poliuretan Spray S-	Dimensional stability to	Length, width and	PASS
OC-008E	BS EN 1604 : 2013	thickness < 3 % change	
	(-20°C for 48 hours)		
Poliuretan Spray S-	Water absorption to	Declared value	7.0 kg·m ²
OC-008E	BS EN 1609 : 2013		
50 mm thickness	(Method B)		

8.3 Service life

Under normal service conditions, the product will have a life equivalent to the structure in which it is incorporated, provided it is designed, installed and maintained in accordance with this Certificate and the Certificate holder's instructions.

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⁽²⁾ See section 6.2.3.

PROCESS ASSESSMENT

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 assessed in this Certificate.
- 9.1.2 Roofs must be designed and constructed in accordance with the relevant clauses of BS 5250: 2021, BS 5534: 2014, BS 8103-3: 2009, BS 8212: 1995, BS EN 351-1: 2007, BS EN 1995-1-1: 2004 and its UK National Annex, and this Certificate.
- 9.1.3 Construction elements must be designed and constructed to incorporate the normal precautions against moisture ingress before application of the product.
- 9.1.4 The product forms a strong bond with clean, dry substrates. This must be considered when specifying the product or anticipating future alterations.
- 9.1.5 The guidance given in the documents supporting the national Building Regulations must be followed when the product is installed near certain flue pipes and/or heat-producing appliances.
- 9.1.6 De-rating of electric cables must be considered in areas where the product restricts the flow of air. The use of suitable conduit or trunking is recommended.
- 9.1.7 Where recessed lighting is used, provision must be made to prevent the fitting overheating.
- 9.1.8 Care must be taken in the overall design and construction of junctions with other elements and openings to minimise thermal bridges and air infiltration. Detailed guidance can be found in the documents supporting the national Building Regulations.
- 9.1.9 In England and Wales, roofs and loft spaces will limit the risk of surface condensation adequately where the thermal transmittance (U value) does not exceed $0.35 \text{ W} \cdot \text{m}^{-2} \cdot \text{K}^{-1}$ at any point and the junctions with other elements are designed in accordance with the guidance referred to in section 6 of this Certificate.
- 9.1.10 For buildings in Scotland, constructions will be acceptable where the thermal transmittance (U value) of the roof does not exceed 1.2 W·m $^{-2}$ ·K $^{-1}$ at any point, and roofs are designed and constructed in accordance with the relevant parts of BS 5250 : 2021. Further guidance may be obtained from BRE Report BR 262 : 2002.
- 9.1.11 To comply with the requirements of the *Health and Safety at Work Act* 1974, Section 4, it is essential that there is an exchange of information between the client and the installer before spray operations commence on any site. Existing health hazards and those brought into the premises by the installer should be discussed, and measures agreed to deal with them effectively.

9.2 <u>Installation</u>

- 9.2.1 Installation instructions provided by the Certificate holder were assessed and judged to be appropriate and adequate.
- 9.2.2 Installation must be carried out in accordance with this Certificate and the Certificate holder's instructions. A summary of instructions and guidance are provided in Annex A of this Certificate.
- 9.2.3 A pre-installation survey must be carried out and documented to ensure that the construction is suitable for the application of the product. This must include a condensation risk assessment to EN 15026 : 2007 (see section 3 of this Certificate).

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- 9.2.4 Existing constructions must be in a good state of repair, with no evidence of rain penetration or damp. Defects must be made good prior to installation.
- 9.2.5 Any mould or fungal growth found to be present must be treated.
- 9.2.6 Installation must not be carried out unless the moisture content of any roof timber is less than 20% by mass.
- 9.2.7 When spraying the product, care must be taken to ensure the integrity of the roof tile underlay drape (refer to the *Synthesia Installer Training Manual* issued to installers).
- 9.2.8 The process for the installation of the product may produce a build-up of harmful vapours. The requirements of the *Synthesia Installer Training Manual* and the product safety data sheets issued to installers, must be followed at all times.
- 9.2.9 The building must be well-ventilated during the spraying process.
- 9.1.10 If vapour levels must be measured, methods must be those recommended by the Health and Safety Executive. Certain applications (eg, confined roofs) require the use of extractor fans as recommended by the Certificate holder.
- 9.2.11 To minimise the hazards of spraying, the following points must be observed:
- the installer must wear appropriate protective gear, including a full-face NIOSH-approved fresh air respirator, protective overalls, gloves and boots
- other than the installer, individuals must be kept away from the application area. No unprotected individuals should be in the structure where the application is being conducted
- the spray gun should never be left unattended
- the spray gun should only be pointed at the surface or, when not in use, at the floor
- the product should not be installed if wind is a concern; tarpaulins or other measures should be used to block it
- cleaning the spray gun requires use of a solvent to break down and/or remove the reacted components; therefore, to prevent exposure to the components and the solvent, proper protection should be worn.
- 9.2.12 Whilst spraying, care should be taken to minimise the degree of overspray, a fine mist of particles that can travel considerable distances and adhere strongly to surfaces it lands on.
- 9.2.13 To prevent the product from entering an occupied space, the loft hatch/cover must be kept sealed as much as is practicably possible during the spraying process. Protective covers must be placed over water tanks to prevent contamination and blockage during application, which should not be removed until sufficient time has elapsed for potentially harmful vapours to be ventilated from the roof space.

9.3 Workmanship

Practicability of installation was assessed by the BBA on the basis of the Certificate holder's information and a site visit to witness an installation in progress. To achieve the performance described in this Certificate, the product must only be installed by Installers who have been trained and approved by the Certificate holder. Details of Approved Installers are available from the Certificate holder.

9.4 Maintenance and repair

Once installed, provided that the roof tiles/slates are maintained in a weathertight condition, maintenance is not required.

10 Manufacture

- 10.1 The production processes for the product 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.

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- 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.
- † 10.1.6 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 product is delivered to site in in drums of up to 230 kg capacity, bearing the product name, batch number and BBA Certificate number.
- 11.2 Delivery and site handing must be performed in accordance with the Certificate holder's instructions and this Certificate, including:
- 11.2.1 Drums must be stored in a well-ventilated area, between 10 and 30°C, and away from possible ignition sources.
- 11.2.2 Drums must be protected from frost.

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ANNEX A – SUPPLEMENTARY INFORMATION †

Supporting information in this Annex is relevant to the product 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.

CLP Regulations

The Certificate holder has taken the responsibility of classifying and labelling the product under the *GB CLP Regulation* and the *CLP Regulation (EC) No 1272/2008 - classification, labelling and packaging of substances and mixtures.* Users must refer to the relevant Safety Data Sheets.

CE marking

The Certificate holder has taken the responsibility of CE marking the product, in accordance with harmonised European Standard EN 14315-1: 2013.

Management Systems Certification for production

The management system of the manufacturer has been assessed and registered as meeting the requirements of ISO 9001: 2015 by The Registrar Company (AENOR) (Certificates ES-0318/2017).

Additional Guidance

The Certificate holder operates an Approved Installer Scheme for the product, under which the installers are approved, registered, and regularly reviewed by the Certificate holder to demonstrate that they are competent to carry out installation of the product in accordance with their instructions and this Certificate. Details of Approved Installers are available from the Certificate holder.

Additional information on installation

Procedure

- A.1 Access boards and lighting should be positioned in the roof void.
- A.2 The product should be stored, handled and applied in accordance with the Certificate holder's instructions and this Certificate.
- A.3 The product should be spray-applied to clean and dry substrates and built up in one or two layers, up to a total maximum thickness of 230 mm.
- A.4 Care must be taken not to apply the product to flue pipes or to electrical cables that are not contained within a suitable conduit or trunking.
- A.5 The product can be applied directly to a non-breathable roof tile underlay when a counter batten is fitted above the underlay.
- A.6 When spraying on to non-breathable roof tile underlays without counter battens, the product must be applied in accordance with the Certificate holder's installation instructions, to ensure the integrity of the roof tile drape.

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A.7 After completion, a survey should be performed to check that electrical cables and flues are not obstructed. Corrective measures must be taken to clear any such obstruction.

A.8 Once cured, the product is trimmed flush with the rafters, with care, and an AVCL with lapped and sealed joints installed followed by a fire-resistant lining board, if required.

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Bibliography

BRE Report BR 262: 2002 Thermal insulation: avoiding risks

BS 5250: 2021 Management of moisture in buildings. Code of practice

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

BS 8103-3: 2009 Structural design of low-rise buildings — Code of practice for timber floors and roofs for housing

BS 8212: 1995 Code of practice for dry lining and partitioning using gypsum plasterboard

BS EN 351-1 : 2007 Durability of wood and wood-based products — Preservative-treated solid wood — Classification of preservative penetration and retention

BS EN 823: 2013 Thermal insulating products for building applications — Determination of thickness

BS EN 1602: 2013 Thermal insulating products for building applications — Determination of the apparent density

BS EN 1604 : 2013 Thermal insulating products for building applications — Determination of dimensional stability under specified temperature and humidity conditions

BS EN 1609 : 2013 Thermal insulating products for building applications — Determination of short term water absorption by partial immersion

BS EN 1995-1-1: 2004 + A2: 2014 Eurocode 5: Design of timber structures — General — Common rules and rules for buildings

NA to BS EN 1995-1-1 : 2004 + A2 : 2014 UK National Annex to Eurocode 5 : Design of timber structures — General — Common rules and rules for buildings

BS EN 12086 : 2013 Thermal insulating products for building applications — Determination of water vapour transmission properties

BS EN 12667 : 2001 Thermal performance of building materials and products — Determination of thermal resistance by means of guarded hot plate and heat flow meter methods — Products of high and medium thermal resistance

BS EN 14315-1: 2013 Thermal insulating products for buildings — In-situ formed sprayed rigid polyurethane (PUR) and polyisocyanurate (PIR) foam products — Specification for the rigid foam spray system before installation

EN 15026 : 2007 Hygrothermal performance of building components and building elements — Assessment of moisture transfer by numerical simulation

UNE-EN 13501-1 : 2019 Fire classification of construction products and building elements — Classification using test data from reaction to fire tests

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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.

British Board of Agrément Building 3, Hatters Lane, Croxley Park, Watford Herts WD18 8YG

tel: 01923 665300 clientservices@bbacerts.co.uk www.bbacerts.co.uk