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### Agrément Certificate 15/5253 **Product Sheet 1**

# **ICOPAL INSULATION**

# **ICOPAL THERMAZONE FOILBOARD INSULATION**

This Agrément Certificate Product Sheet<sup>(1)</sup> relates to Icopal Thermazone Foilboard Insulation, a rigid thermoset polyisocyanurate foil-faced insulation board for use as a thermal insulation layer and to create or improve falls on limited access concrete, metal or timber flat roof decks. It is for use in conjunction with a vapour control layer and a single ply mechanically fixed roof waterproofing membrane in domestic and non-domestic buildings.

(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<sup>†</sup> •
- formal three-yearly review.<sup>†</sup> •

#### **KEY FACTORS ASSESSED**

**Thermal performance** – the product has a declared thermal conductivity\* ( $\lambda_{D}$  value) of 0.022 W·m<sup>-1</sup>·K<sup>-1</sup> (see section 6). Condensation risk - the product can contribute to limiting the risk of surface condensation (see section 7).

Strength and stability — when installed on suitable substrates using appropriate fixings, the product can adequately transfer maintenance traffic loads and wind loads to the roof deck (see section 8).

Behaviour in relation to fire — The product has a reaction to fire classification of class E rating\* in accordance with EN 13501-1 : 2007. The fire rating of any roof containing the boards will depend on the type of deck and the nature of the roof waterproof covering (see section 9).

Durability — the product, when used as thermal insulation in the roof system described in this Certificate, will have a life at least as long as that of a roof waterproofing covering (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: 15 January 2016

an

Chief Executive

Claire Curtis-Thomas

Construction Products

John Albon — Head of Approvals

This Certificate was amended on 22 May 2024 as part of a transition of The BBA Agrément Certificate scheme delivered under the BBA's ISO/IEC 17020 accreditation. This Certificate was issued originally under accreditation to ISO/IEC 17020 format will take place at the symbol 7 are not issued under accreditation. Full conversion to the ISO/IEC 17020 format will take place at the next Certificate review. The BBA is a UKAS accredited Inspection Body (No. 4345). Readers MUST Check the validity of this Agrément Certificate Devine the BBA directly. Any photographs are for illustrative purposes only, do not constitute advice and must not be relied upon.

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# Regulations

In the opinion of the BBA, Icopal Thermazone Foilboard Insulation, 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):



### $rac{1}{2}$ The Building Regulations 2010 (England and Wales) (as amended)

Requirement:	A1	Loading
Comment:		The product can contribute to satisfying this Requirement. See section 8.1 of this Certificate.
Requirement:	B4(2)	External fire spread
Comment:		Roofs incorporating the product can satisfy this Requirement. See section 9.3 of this Certificate.
Requirement:	C2(c)	Resistance to moisture
Comment:		The product can contribute to satisfying this Requirement. See sections 7.1 and 7.3 of this Certificate.
Requirement:	L1 (a)(i)	Conservation of fuel and power
Comment:		The product can satisfy or contribute to a roof satisfying this Requirement. See section 6 of this Certificate.
Regulation:	7	Materials and workmanship
Comment:		The product is an acceptable material. It should be specified and installed in accordance with section 11
		and the Installation part of this Certificate.
Regulation:	26	CO <sub>2</sub> emission rates for new buildings
Regulation:	26A	Fabric energy efficiency rates for new dwellings (applicable to England only)
Regulation:	26A	Primary energy consumption rates for new buildings (applicable to Wales only)
Regulation:	26B	Fabric performance values for new dwellings (applicable to Wales only)
Comment:		The product can contribute to satisfying these Regulations. See section 6 of this Certificate.

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

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Regulation:	8(1)	Durability, workmanship and fitness of materials
Comment:		The product is acceptable. See section 11 and the <i>Installation</i> part of this Certificate.
Regulation:	9	Building standards applicable to construction
Standard:	1.1	Structure
Comment:		The product can contribute to satisfying this Standard, with reference to clauses $1.1.2^{(1)(2)}$ and $1.1.3^{(1)(2)}$ . See section 8.1 of this Certificate.
Standard:	2.8	Spread from neighbouring buildings
Comment:		Roofs incorporating the product can satisfy this Standard, with reference to clauses $2.8.1^{(1)(2)}$ . See section 9.3 of this Certificate.
Standard:	3.15	Condensation
Comment:		The product can contribute to satisfying this Standard, with reference to clauses $3.15.1^{(1)(2)}$ , $3.15.4^{(1)}$ and $3.15.5^{(1)(2)}$ . See sections 7.1 and 7.4 of this Certificate.
Standard:	6.1(b)	Carbon dioxide emissions
Standard:	6.2	Building insulation envelope
		The product can contribute to satisfying these Standards. See section 6 of this Certificate.
Standard:	7.1(a)(b)	Statement of sustainability
Comment:		The product 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. In addition, the product can contribute to a construction meeting a higher level of sustainability as defined in this Standard, with reference to clauses $7.1.4^{(1)(2)}$ [Aspects $1^{(1)(2)}$ and $2^{(1)}$ ], $7.1.6^{(1)(2)}$ [Aspects $1^{(1)(2)}$ and $2^{(1)}$ ], and $7.1.7^{(1)(2)}$ [Aspect $1^{(1)(2)}$ ]. See section 6.1 of this Certificate.
Regulation:	12	Building standards applicable to conversions
Comment:		All comments given for this 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> . (1) Technical Handbook (Domestic).
		(2) lechnical Handbook (Non-Domestic).

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

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Regulation: Comment: Regulation:	23 29	Fitness of materials and workmanship The product is acceptable. See section 11 and the <i>Installation</i> part of this Certificate. Condensation
Comment: Regulation:	30(a)	The product can contribute to satisfying this Regulation. See section 7.1 of this Certificate. <b>Stability</b>
Comment: Regulation: Comment:	36(b)	The product can contribute to satisfying this Regulation. See section 8.1 of this Certificate. External fire spread Roofs incorporating the product can satisfy this Regulation. See section 9.3 of this Certificate.

Regulation:	39(a)(i)	Conservation measures
Regulation:	40(2)	Target carbon dioxide emission rate
Comment:		The product can contribute to satisfying these Regulations. See section 6 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:

tion: 3 Delivery and site handling (3.3) of this Certificate.

# Additional Information

# NHBC Standards 2016

NHBC accepts the use of Icopal Thermazone Foilboard Insulation, provided it is installed, used and maintained in accordance with this Certificate, in relation to NHBC Standards, Chapter 7.1 Flat roofs and balconies.

### CE marking

The Certificate holder has taken the responsibility of CE marking the product, in accordance with harmonised European Standard BS EN 13165 : 2012. An asterisk (\*) appearing in this Certificate indicates that data shown are given in the manufacturer's Declaration of Performance.

# Technical Specification

### **1** Description

1.1 Icopal Thermazone Foilboard Insulation is a rigid thermoset polyisocyanurate insulation board manufactured using CFC/HCFC free materials, incorporating composite foil-facings on both sides.

1.2 The product has the nominal characteristics as shown in Table 1 of this Certificate.

Table 1 Nominal characteristics			
Length and width (mm)	1200 x 600 or 2400 x 1200		
Thickness (mm)	25 to 150		
Compressive strength at 10% compression (kPa)	150		
Density (kg⋅m <sup>-3</sup> )	30		
Edge profile	Square		

1.3 Boards are also available in a tapered version for falls of 1:80 and 1:60 (1200 mm by 1200 mm).

1.4 The product is installed as part of a roof system in conjunction with the following items (which are outside the scope of this Certificate):

- mechanically fixed single-ply roof waterproofing membrane
- vapour control layer (VCL)
- fixings incorporating a countersunk washer.

# 2 Manufacture

2.1 Raw materials, mixed to a controlled formulation, are blended and poured onto the foil-facing then cured and cut to the required dimensions.

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 Icopal Ltd has been assessed and registered as meeting the requirements of BS EN ISO 9001 : 2008 by BSI (Certificate Q05556) and BS EN ISO 14001 : 2004 by BSI (Certificate EMS 535978).

# 3 Delivery and site handling

3.1 The product is delivered to site in packs wrapped in polythene. Each pack contains a label bearing the manufacturer's trade name and the BBA identification mark incorporating the number of this Certificate.

3.2 It is essential that the product is stored such that it is raised off the ground, inside or under cover on a flat, dry, level surface in a well-ventilated area. The product must be protected from rain, snow and prolonged exposure to sunlight. If the product has been allowed to get wet, or if it is damaged, it must not be used. Nothing should be stored on top of the product.

3.3 The product must not be exposed to a naked flame or other ignition sources. The product must not be exposed to solvents or other chemicals.

# Assessment and Technical Investigations

The following is a summary of the assessment and technical investigations carried out on Icopal Thermazone Foilboard Insulation.

# Design Considerations

# 4 General

4.1 Icopal Thermazone Foilboard Insulation is suitable for use as a thermal insulation layer on concrete, metal or timber flat roofs, with access limited to maintenance only.

4.2 Decks should be designed in accordance with the relevant clauses of either BS 6229 : 2003 or BS 8217 : 2005 and, where appropriate, the *NHBC Standards* 2016, Chapter 7.1, Section 4.

4.3 Decks should be covered with a mechanically fixed, single ply, waterproof membrane which is the subject of a current Agrement Certificate, laid in accordance with, and within the limitations imposed by, that Certificate.

# 5 Practicability of installation

The product is designed to be installed by a competent roofing contractor, experienced with this type of product.

# 6 Thermal performance

6.1 Calculations of thermal transmittance (U value) should be carried out in accordance with BS EN ISO 6946 : 2007 and BRE Report BR 443 : 2006, using the thermal conductivity\* ( $\lambda_{\rm D}$  value) of 0.022 W·m<sup>-1</sup>·K<sup>-1</sup>.

6.2 The U value of a completed roof will depend on the thickness of insulation used, the number and type of fixings and the insulating value of other roof components/layers. Example U values of roofs incorporating the product are shown in Tables 2 and 3.

Table 2 Example U values for constructions with galvanized steel fixings ( $W \cdot m^{-2} \cdot K^{-1}$ )				
U value	Insulation thickness <sup>(1)</sup> (mm)			
(W·m <sup>-2</sup> ·K <sup>-1</sup> )	Concrete <sup>(2)(3)</sup>	Timber <sup>(2)(4)</sup>	Metal <sup>(2)(5)</sup>	
0.13	_	_	_	
0.15	145	140	150	
0.16	140	130	140	
0.18	120	115	125	
0.20	110	105	110	
0.25	90	80	90	

(1) Nearest available thickness.

(2) Includes 5.55 galvanized steel insulation fixings per m<sup>2</sup> and 3.55 galvanized steel waterproofing fixings per m<sup>2</sup>, with a 4.8 mm cross sectional diameter.

(3) 150 mm concrete decking 1.33 W·m<sup>-2</sup>·K<sup>-1</sup>, VCL, 1.5 mm waterproofing membrane.

(4) 12.5 mm plasterboard, 150 mm timber joists (12.5%)/air cavity (87.5%), 18 mm plywood decking, VCL, 1.5 mm waterproofing membrane.

(5) Metal deck, VCL, 1.5 mm waterproofing membrane.

### Table 3 Example U values for constructions with stainless steel fixings ( $W \cdot m^{-2} \cdot K^{-1}$ )

U value	Insulation thickness <sup>(1)</sup> (mm)		
(W·m <sup>−2</sup> ·K <sup>−1</sup> )	Concrete <sup>(2)(3)</sup>	Timber <sup>(2)(4)</sup>	Meta <sup>(2)(5)</sup>
0.13	_	_	_
0.15	140	135	140
0.16	130	125	135
0.18	115	110	120
0.20	105	100	105
0.25	85	80	85

(1) Nearest available thickness.

(2) Includes 5.55 stainless steel insulation fixings per  $m^2$  and 3.55 stainless steel waterproofing fixings per  $m^2,$ with a 4.8 mm cross sectional diameter.

(3) 150 mm concrete decking 1.33 W·m<sup>-2</sup>·K<sup>-1</sup>, VCL, 1.5 mm waterproofing membrane.

- (4) 12.5 mm plasterboard, 150 mm timber joists (12.5%)/ air cavity (87.5%), 18 mm plywood decking, VCL, 1.5 mm waterproofing membrane
- (5) Metal deck, VCL, 1.5 mm waterproofing membrane.

🖢 6.3 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.

# 7 Condensation risk

#### Interstitial condensation

🐲 7.1 Roofs will adequately limit the risk of interstitial condensation when they are designed and constructed in accordance with BS 5250 : 2011, Section 8.4 and Appendix D and Appendix H and BRE Report BR 262 : 2002 in England and Wales. Jŗ

7.2 For the purposes of assessing the risk of interstitial condensation, the insulation core vapour resistivity may be taken as approximately 300 MN s g<sup>-1</sup>·m<sup>-1</sup>, with a resistance value of 1000 MN s g<sup>-1</sup>·m<sup>-1</sup> for each foil-facing.

#### Surface condensation



💱 7.3 Roofs will adequately limit the risk of surface condensation when the thermal transmittance (U value) does not exceed 0.35  $W \cdot m^{-2} \cdot K^{-1}$  at any point and the junctions with other elements are designed in accordance with section 6.3.



🐲 7.4 Roofs will adequately limit the risk of surface condensation when the thermal transmittance (U value) does section 6.3 of this Certificate. Additional information can be found in BRE Report BR 262 : 2002.

# 8 Strength and stability



🐲 8.1 When installed on suitable flat roof decks, using appropriate fixings, the product can adequately transfer maintenance traffic loads and negative and positive (suction and pressure) wind loads to the roof deck.

8.2 The roof construction or immediate substrate to which the boards are fixed must be structurally sound and have sufficient strength and stability to resist all dead, imposed and wind loads. It must also have adequate resistance to the pull-out forces created by the wind forces acting on the specified fixings used.

8.3 The suitability of the roof construction, and in particular the immediate substrate, for any specified mechanical fixings must be checked before installation by carrying out in-situ pull-out or pull-through testing to determine the minimum safe working load the fixings can resist. The advice of the Certificate holder should also be sought in respect of suitable mechanical fixings.

8.4 The type and number of fixings will depend on the roof construction and location; the Certificate holder's advice should be sought in this respect. The Certificate holder recommends a minimum number of fixings per board size, see section 13.4.

8.5 All design analysis must be in accordance with British or European Standards relevant to the construction. The requirement for fixings to suit the wind uplift requirements for the particular site should be assessed in accordance with BS 6399-2 : 1997 or BS EN 1991-1-4 : 2005. All calculations should be carried out by a suitably qualified Chartered Engineer.

8.6 Each fixing must incorporate a head or washer which is a minimum of 50 mm diameter if round or 50 mm by 50 mm if square. Fixings installed along the edges or at corners of boards should be between 50 mm and 150 mm from the board edge (210 mm for tapered boards).

8.7 Roof waterproof covering systems (see section 4.3 for suitable types) must be applied in accordance with the relevant Agrément Certificates or manufacturer's guidance.

8.8 For design purposes, the boards may be assumed to have an allowable compressive strength of 150 kPa at 10% compression.

8.9 Boards have not been assessed for use with permanent distributed or concentrated loads, such as air conditioning units, mechanical plants, water tanks, etc. Such loads should be supported directly on the roof construction. The product is not suitable when permanent roof access is required.

8.10 When used on profiled decking, the boards will need to span across the ribs. Maximum permissible spans between ribs for board thicknesses are shown in Table 4.

Table 4 Maximum clear span				
Maximum clear span (mm)		Minimum roofboard thickness (mm)		
<75		25		
>75	≤100	30		
>100	≤125	35		
>125	≤150	40		
>150	≤175	45		
>175	≤200	50		
>200	≤225	55		
>225	≤250	60		

8.11 When maintenance is required to the roof waterproofing, protective boarding should be laid over the roof surface to avoid concentrations of load.

# 9 Behaviour in relation to fire

9.1 The product is not classified as non-combustible. It contains a flame-retardant additive and has a Class E\* reaction-to-fire classification in accordance with EN 13501-1 : 2007.

9.2 The fire rating of any roof containing the product will depend on the type of deck and the nature of the roof waterproof covering.

9.3 The following systems achieved a classification of  $B_{ROOF}(t4)$  in accordance with EN 13501-5 : 2005 and so are acceptable less than 6 m from a relevant boundary:

- a 0.7 mm profile metal deck, a 250 micron polythene vapour control layer, a 100 mm thick insulation board and a 1.2 mm PVC water proofing membrane with mechanical fixings
- a 0.7 mm profile metal deck, a 250 micron polythene vapour control layer, a 100 mm thick insulation board and a 1.5 mm PVC water proofing membrane with mechanical fixings.

9.4 The designation of other specifications should be confirmed by:

**England and Wales** — test or assessment in accordance with Approved Document B, Volumes 1 and 2, Appendix A, Clause 6

Scotland — test to conform to clauses  $2.C^{(1)}$  and  $2.F^{(2)}$ 

(1) Technical Handbook (Domestic).

(2) Technical Handbook (Non-Domestic).

Northern Ireland — test to conform to clauses 5.21 and 5.22.

### 10 Maintenance

The product, once installed, does not require any regular maintenance and has suitable durability provided the roof waterproof layers are inspected and maintained at regular intervals (see section 11).

### 11 Durability

The product is rot-resistant and durable, and will have a life at least as long as that of the roof waterproof covering.

# Installation

# 12 General

12.1 Icopal Thermazone Foilboard Insulation must be installed in accordance with the Certificate holder's instructions and BS 6229 : 2003, BS 8217 : 2005 or the relevant Agrément Certificate, depending on the waterproofing to be applied.

12.2 Care should be taken to ensure the deck is graded to the correct falls and is dry, clean and free from any projections or gaps.

12.3 If tapered boards are to be effective in providing a uniform fall it is essential that the structural deck is true and even. Any hollows, depressions, backfalls, etc found in the roof deck must be rectified prior to laying the insulation.

12.4 The suitability of the substrate to accept and retain mechanical fixings must be checked prior to work commencing.

12.5 The deck to which the VCL is to be applied must be level, dry, sound and, if it is to be bonded, must be free from dust and grease and other defects which may impair the bond.

12.6 On multi-storey buildings or in areas subject to high wind loads, additional mechanical fixings may be required and the advice of the Certificate holder should be sought on any limitations of use.

12.7 The mechanical fixing frequency and pattern should be predetermined in accordance with the Certificate holder's instructions and the relevant clauses of BS 6399-2 : 1997 or BS EN 1991-1-4 : 2005. Each fixing should incorporate a square or circular plate countersunk washer (see section 8.6), which must not restrain more than one board.

12.8 To prevent moisture being trapped on or in the insulation it is essential to:

- protect the boards during laying, before the application of the roof waterproofing, or to lay the roof covering at the same time as laying the boards. However, boards accidentally wetted must be replaced or allowed to dry fully before application of the waterproof layer
- boards should be installed only when the ambient temperature is above 5°C to prevent condensation.

12.9 Boards can be cut with a sharp knife or fine-toothed saw to fit around projections through the roof.

12.10 Boards are for use with the waterproofing membranes as described in section 4.3.

12.11 Once installed, access to the roof should be restricted in accordance with section 8.11.

### 13 Procedure

### General

13.1 The number of mechanical fixings required to fix the product will vary depending on the geographical location of the building, the topographical data, and height and width of the roof concerned.

13.2 The requirements for an additional number of fixings above those specified in section 12.7 should be assessed in accordance with BS 6399-2 : 1997 or BS EN 1991-1-4 : 2005.

#### Timber/Metal and Concrete Decks

13.3 A 0.25 mm thick polythene VCL should be laid, with 150 mm sealed laps. The VCL should be turned up around the insulation and sealed to the waterproof finish at all edges and penetrations such as roof lights. Advice may be sought from the Certificate holder.

13.4 Boards are laid over the VCL in a break-bonded pattern. On profiled metal decks, the long edges of the board should be laid at right angles to the ribs and all board ends must be fully supported on a rib. Boards are secured to the deck with a minimum of four mechanical fixings for 1200 mm by 600 mm boards or six mechanical fixings (2400 mm by 1200 mm boards) placed within the individual board area and sited between 50 mm and 150 mm from all edges (see Figures 1 and 2). A minimum of four fixings per 1200 mm by 1200 mm tapered boards are recommended, sited 210 mm from all edges (see Figure 3). Countersunk washers with square or circular plates of at least 50 mm by 50 mm or 50 mm diameter should be used with each fixing.









13.5 A single-ply membrane is mechanically fixed to the deck through the board, with joints overlapped prior to sealing of the joint, in accordance with the manufacturer's instructions and the relevant Agrément Certificate.

### 14 Tests

Tests were carried out by the BBA on Icopal Thermazone Foilboard Insulation and the results assessed to determine:

- behaviour under variations in temperature (unrestrained)
- behaviour under distributed load and increased temperature
- effect of concentrated load on cantilevered parts
- bowing under the effect of a thermal gradient
- behaviour on exposure to moisture
- tensile strength perpendicular to faces
- compressive strength.

# 15 Investigations

15.1 An assessment was made of the results of test data relating to:

- density
- dimensional stability with temperature
- effect of concentrated load under a free span
- fire rating
- thermal conductivity
- dimensional variations in unrestrained panels.
- 15.2 An assessment of the risk of interstitial condensation was made.

15.3 An assessment was made of typical constructions which achieve the design U values.

# Bibliography

BS 5250 : 2011 Code of practice for control of condensation in buildings

BS 6229 : 2003 Flat roofs with continuously supported coverings - Code of practice

BS 6399-2 : 1997 Loading for buildings - Code of practice for wind loads

BS 8217 : 2005 Reinforced bitumen membranes for roofing - Code of practice

BS EN 1991-1-4 : 2005 Eurocode 1 : Actions on structures - General actions - Wind actions

BS EN 13165 : 2012 Thermal insulation products for buildings — Factory made rigid polyurethane foam (PU) products — Specification

BS EN ISO 6946 : 2007 Building components and building elements — Thermal resistance and thermal transmittance — Calculation method

BS EN ISO 9001 : 2008 Quality management systems - Requirements

BS EN ISO 14001 : 2004 Environmental Management systems - Requirements with guidance for use

BRE Report (BR 262 : 2002) Thermal insulation: avoiding risks

BRE Report (BR 443 : 2006) Conventions for U-value calculations

 $\rm EN$  13501-1 : 2007 Fire classification of construction products and building elements - Classification using data from reaction to fire tests

### 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, UKNI or 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		
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