

## IKO PLC

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### Agrément Certificate

24/7125

Product Sheet 1 Issue 1

## IKO LIQUID APPLIED MEMBRANE WATERPROOFING SYSTEM

### IKO TANETECH R-EC/UV ROOF WATERPROOFING SYSTEM

This Agrément Certificate Product Sheet<sup>(1)</sup> relates to the IKO tanetech R-EC/UV Roof Waterproofing System, a polyurethane liquid-applied roof waterproofing system for use on new and existing flat roofs with limited access.

(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 system described herein. This system 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: 11 April 2024

Hardy Giesler  
Chief Executive Officer

*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 the IKO tanetech R-EC/UV Roof Waterproofing System, 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)

<b>Requirement:</b>	<b>B4(2)</b>	<b>External fire spread</b>
Comment:		On suitable substructures, the system may enable a roof to be unrestricted by this Requirement. See section 2 of this Certificate.
<b>Requirement:</b>	<b>C2(b)</b>	<b>Resistance to moisture</b>
Comment:		The system will enable a roof to satisfy this Requirement. See section 3 of this Certificate.
<b>Regulation:</b>	<b>7(1)</b>	<b>Materials and workmanship</b>
Comment:		The system is acceptable. See sections 8 and 9 of this Certificate.



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

<b>Regulation:</b>	<b>8(1)(2)</b>	<b>Fitness and durability of materials and workmanship</b>
Comment:		The system is acceptable. See sections 8 and 9 of this Certificate.
<b>Regulation:</b>	<b>9</b>	<b>Building standards - construction</b>
Standard:	2.8	Spread from neighbouring buildings
Comment:		The system, when applied to a suitable substructure, may enable a roof to be unrestricted by this Standard with reference to clause 2.8.1 <sup>(1)(2)</sup> . See section 2 of this Certificate.
Standard:	3.10	Precipitation
Comment:		The use of the system will enable a roof to satisfy this Standard, with reference to clauses 3.10.1 <sup>(1)(2)</sup> and 3.10.7 <sup>(1)(2)</sup> . See section 3 of this Certificate.
Standard:	7.1(a)	Statement of sustainability
Comment:		The system 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.
<b>Regulation:</b>	<b>12</b>	<b>Building standards - conversion</b>
Comment:		All comments given for the system 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) Technical Handbook (Non-Domestic).



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

<b>Regulation:</b>	<b>23(1)(a) (i)(ii)</b>	<b>Fitness of materials and workmanship</b>
Comment:	<b>(iii)(iv)(b)(i)</b>	The system is acceptable. See sections 8 and 9 of this Certificate.

<b>Regulation:</b>	<b>28(b)</b>	<b>Resistance to moisture and weather</b>
<b>Comment:</b>		The system will enable a roof to satisfy this Regulation. See section 3 of this Certificate.
<b>Regulation:</b>	<b>36(b)</b>	<b>External fire spread</b>
<b>Comment:</b>		On suitable substructures, the use of the system may enable a roof to be unrestricted by this Regulation. See section 2 of this Certificate.

## Additional Information

### NHBC Standards 2024

In the opinion of the BBA, the IKO tanetech R-EC/UV Roof Waterproofing System, 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 7.1 *Flat roofs, terraces and balconies*.

In addition, in the opinion of the BBA, the system when installed and used in accordance with this Certificate, can satisfy or contribute to satisfying the relevant requirements in relation to *NHBC Standards for Conversions and Renovations*, taking account of other relevant guidance within the chapter and the suitability of the substrate to receive the system.

The NHBC Standard do not cover the refurbishment of existing roofs.

## Fulfilment of Requirements

The BBA has judged the IKO tanetech R-EC/UV Roof Waterproofing System to be satisfactory for use as described in this Certificate. The system has been assessed as a waterproofing system on new and existing flat roofs with limited access as described in this Certificate.

## ASSESSMENT

### Product description and intended use

The Certificate holder provided the following description for the system under assessment. The IKO tanetech R-EC/UV Roof Waterproofing System consists of:

- IKO tech Non Porous Primer — a single-component primer for use on non-porous substrates prior to the application of IKO tanetech R-EC
- IKO tanetech Porous Primer — a two-component primer for use on porous substrates prior to the application of IKO tanetech R-EC
- IKO tanetech R-EC — a single-component black resin, based on aromatic polyurethane for use as the first layer of the waterproofing system
- IKO tanetech R-UV — a single-component mid-grey or dark grey resin, based on aliphatic polyurethane for use as the top waterproofing UV-resistant layer of the waterproofing system. Other RAL colours are available upon request
- IKO glass Fleece 225 — a 225 g·m<sup>-2</sup> white glass fibre reinforcement fleece for embedding into IKO tanetech R-EC.

## Ancillary items

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

- IKO shield PLUS ALU/SA - a bitumen carrier membrane
- IKO systems Sprayfast MPP - bonding primer
- IKOpro PU adhesive – insulation adhesive
- IKOpro Sprayfast IBA – insulation adhesive
- IKO Ultra S-A VCL - bituminous air and vapour control layer
- IKO enertherm Gold PIR insulation
- IKO enertherm MG PIR insulation
- IKO enertherm expanded polystyrene (XPS) insulation
- IKO tech Cleaner – to clean the substrate prior to the installation of the system and to clean tools and non-polymerized stains

The system is intended for use as a waterproofing layer on new or existing flat roofs with limited access.

The system is intended for use on the following substrates:

- concrete
- reinforced bitumen membranes.

## Definitions for products and applications inspected

The following terms are defined for the purpose of this Certificate as:

- limited access roof — a roof subjected only to pedestrian traffic for maintenance of the roof covering, cleaning of gutters, etc
- flat roof — a roof with a minimum finished fall of 1:80
- pitched roof — a roof with a fall in excess of 1:6.

## **Product assessment – key factors**

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

### **1 Mechanical resistance and stability**

Not applicable.

### **2 Safety in case of fire**

Data were assessed for the following characteristics.

#### **2.1 External fire spread**

2.1.1 When tested to CEN/TS 1187 : 2012, Test 4 and classified to EN 13501-5 : 2005, the construction given in Table 1 of this Certificate achieved B<sub>ROOF(t4)</sub> for slopes below 10°.

*Table 1 Tested systems*

System	Substrate	Layer 1	Layer 2	Layer 3
tanetech R-EC/UV <sup>(1)</sup>	16 mm particle board <sup>(2)</sup>	tanetech R-EC 1.2 mm	IKO glass Fleece 225 reinforcement	tanetech R-UV 0.8 mm

(1) Fire test/classification reports WF 314520 and 315099 issued by Exova are available from the Certificate holder on request.

(2) This component is outside the scope of the Certificate.

2.1.2 On the basis of data assessed, the construction listed in Table 1 will be unrestricted by the documents supporting the national Building Regulations with respect to proximity to a relevant boundary. Restrictions may apply at junctions with compartment walls.

2.1.3 When used in conjunction with one of the inorganic coverings listed in the Annex of Commission Decision 2000/553/EC, the system will be similarly unrestricted.

2.1.4 The classification and permissible areas of use of other specifications must be confirmed by reference to the requirements of the documents supporting the national Building Regulations.

### 3 Hygiene, health and the environment

Data were assessed for the following characteristics.

#### 3.1 Weathertightness

3.1.1 Results of weathertightness tests are given in Table 2.

<i>Table 2 Results of weathertightness tests</i>			
System assessed	Assessment method	Requirement	Result
IKO tanetech R-EC/UV System	Determination of Watertightness to TR-003 : 2004 1 m head of water	No leakage	pass
IKO tanetech R-EC/UV System	Water vapour diffusion – equivalent air layer thickness ( $s_d$ ) to BS EN 1931 : 2000	Value achieved	8.04 m
IKO tanetech R-EC/UV System on concrete	Delamination to EOTA TR-004 : 2004	≥50 kPa	Pass
IKO tanetech R-EC/UV System on bitumen membrane			Pass

3.1.2 On the basis of data assessed, the system will adequately resist the passage of moisture to the inside of a building and so satisfy the requirements of the national Building Regulations.

3.1.3 The adhesion of the system is sufficient to resist the effects of wind suction, elevated temperature and thermal shock conditions likely to occur in practice, and remain weathertight.

3.1.4 The resistance to wind uplift for warm roofs will be dependent on the cohesive strength of the insulation and the method by which it is secured to the roof deck. This must be taken into account when selecting a suitable insulation material.

#### 3.2 Resistance to mechanical damage

3.2.1 Results of resistance to mechanical damage tests are given in Table 3.

**Table 3 Mechanical resistance results**

Product assessed	Assessment method	Requirement	Result
IKO tanetech R-EC/UV System on steel	Dynamic indentation to EOTA TR-006 : 2004	Value achieved	
	Tested at 23°C		I <sub>4</sub>
	Tested at -30°C		I <sub>4</sub>
	Applied at 5°C and tested at 23°C		I <sub>3</sub>
	Applied at 35°C and tested at 23°C		I <sub>3</sub>
IKO tanetech R-EC/UV System on bitumen membrane over insulation	Tested at 23°C		I <sub>4</sub>
IKO tanetech R-EC/UV System	Tensile strength to BS EN ISO 527-4 : 1997		308 N·(50mm) <sup>-1</sup>
IKO tanetech R-EC/UV System	Elongation to BS EN ISO 527-4 : 1997		6.7%
IKO tanetech R-EC/UV System on steel	Static indentation to EOTA-TR 007 : 2003	Value achieved	
	Tested at 90°C		L <sub>2</sub>
	Tested at 80°C		L <sub>2</sub>
	Tested at 23°C		L <sub>4</sub>
IKO tanetech R-EC/UV System on bitumen membrane over insulation	Tested at 21°C		L <sub>4</sub>
IKO tanetech R-EC/UV System	Fatigue cycling to EOTA TR-008 : 2004 (1000 cycles)	Watertight and less than 75 mm delamination from substrate	Pass

3.2.2 On the basis of data assessed, the system can accept, without damage, the limited traffic and light concentrated loads associated with installation and maintenance and the effects of minor movement likely to occur in practice, while remaining weathertight.

3.2.3 Where traffic in excess of the examples given in section 3.2.2 is envisaged, such as for maintenance of lift equipment, a suitable walkway must be provided. Reasonable care must be taken to avoid puncture by sharp objects or concentrated loads.

## 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 system 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
IKO tanetech R-EC/UV System	Tensile strength to BS EN ISO 527-4 : 1997 Heat aged for 100 days at 80°C	Value achieved	541 N·(50 mm) <sup>-1</sup>
	UV aged for 1000 MJ·m <sup>-2</sup> at 60°C to EOTA TR-010 : 2004		663 N·(50 mm) <sup>-1</sup>
IKO tanetech R-EC/UV System	Elongation to BS EN ISO 527-4 : 1997 Heat aged for 100 days at 80°C	Value achieved	5.3 %
	UV aged for 1000 MJ·m <sup>-2</sup> at 60°C to EOTA TR-010 : 2004		4.2 %
IKO tanetech R-EC/UV System on concrete	Delamination to EOTA TR-004 : 2004 after water exposure for 180 days at 60°C	≥50 kPa	Pass
IKO tanetech R-EC/UV System on bitumen membrane over insulation		≥50 kPa	Pass
IKO tanetech R-EC/UV System on steel	Dynamic indentation to EOTA TR-006 : 2004 Heat aged for 100 days at 80°C tested at -10°C	Value achieved	I <sub>4</sub>
	UV aged for 1000 MJ·m <sup>-2</sup> at 60°C to EOTA TR-010 : 2004 tested at -30°C		I <sub>4</sub>
IKO tanetech R-EC/UV System on steel	Static indentation to EOTA TR-007 : 2003 after water exposure at 60°C for 180 days tested at 90°C	Value achieved	L <sub>2</sub>
IKO tanetech R-EC/UV System	Fatigue to EOTA TR-008 : 2004 after heat ageing for 100 days at 80°C (50 cycles)	Watertight and less than 75 mm delamination from substrate	Pass

### 8.3 Service life

Under normal service conditions, the system will have a life of at least 25 years, provided it is designed, installed and maintained in accordance with this Certificate and the Certificate holder's instructions.

## 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, and the following requirements apply in order to satisfy the performance assessed in this Certificate.

9.1.2 Decks to which the system is to be applied must comply with the relevant requirements of BS 6229 : 2018 and, where appropriate, *NHBC Standards* 2024, Chapter 7.1.

9.1.3 For design purposes of flat roofs, twice the minimum finished fall must be assumed, unless a detailed structural analysis of the roof is available, including overall and local deflection, and direction of falls.

9.1.4 In areas of pedestrian access, appropriate precautions against slip must be taken.

9.1.5 Dead loads, wind loads and imposed loads must be calculated by a suitably experienced and competent individual in accordance with BS EN 1991-1-1 : 2002, BS EN 1991-1-3 : 2003 and BS EN 1991-1-4 : 2005, and their UK National Annexes.

9.1.6 Insulation materials to be used in conjunction with the system must be in accordance with the Certificate holder's instructions and be either:

- as described in the relevant clauses of BS 6229 : 2018, or
- the subject of a current BBA Certificate and be used in accordance with, and within the limitations of, that Certificate.

## 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 the system must be carried out in accordance with the relevant clauses of BS 8000-0 : 2014 and BS 8000-4 : 1989, the Certificate holder's instructions and this Certificate.

9.2.3 The system's components must be applied when the air and substrate temperatures are greater than 5°C, rising to a maximum air temperature of 35°C. The system must not be installed in rain, snow, fog or misty conditions.

9.2.4 Substrates on which the system is to be applied must be properly prepared in accordance with the Certificate holder's instructions. The Certificate holder recommends that the temperature of the substrate must be at least 3°C above the dew point during application and curing.

9.2.5 Adhesion to substrates will depend on the condition and cleanness of the substrate. Substrates must be visibly dry, sound and free from loose materials or contamination (eg moss or algae). The maximum moisture content of the substrate must measure 18% on the wood scale using a Protimeter or a maximum of 6% measured using a Tramex/Doser.

9.2.6 Damaged areas of the substrate (eg blistered membrane) must be removed, replaced or repaired. Substrate defects (eg shallow-bottomed cracks and indentations) must be filled in accordance with the Certificate holder's instructions.

9.2.7 Deck surfaces must be free from sharp projections such as concrete nibs.

9.2.8 The primers are applied at the coverage rates given in Table 5.

<i>Table 5 Primer application rates</i>	
Primer	Application rate (l·m <sup>-2</sup> )
IKO tech Non Porous Primer	0.1 to 0.2
IKO tanetech Porous Primer	0.1 to 0.2

9.2.9 For activation of the IKO tanetech Porous Primer, each component is mixed separately. Once each component is mixed, the two components are poured in, one after the other and mixed until a homogeneous mixture is achieved. The Certificate holder recommends the use of a mechanical mixer.

9.2.10 The primers (IKO tanetech Porous Primer or IKO tech Non Porous Primer) are applied with a brush or short nap roller.

9.2.11 If the layer of IKO tanetech R-EC is not applied within two days, the primer must be re-applied.

9.2.12 Prior to use, IKO tanetech R-EC and IKO tanetech R-UV should be mixed gently and evenly using a wooden spatula. A mixer must not be used.

9.2.13 The system is applied at the application rates given in Table 6.



*Table 6 System build-up and application rates*

Layers	IKO tanetech R-EC/UV
Base coat	tanetec R-EC at 1.5 l·m <sup>-2</sup> minimum
Reinforcement	IKO glass Fleece 225
Top coat	tanetec R-UV at 1.0 l·m <sup>-2</sup> minimum
Finished thickness (mm)	2.0 minimum

9.2.14 IKO tanetech R-EC is applied to the substrate and the IKO glass Fleece 225 is rolled onto the wet coating. The fleece must be pressed into the first layer using a dry roller, to ensure that the Fleece 225 is fully saturated with IKO tanetech R-EC. There must not be any air bubbles between the first layer and the reinforcement membrane. There must be a 50 mm overlap of the edges of the reinforcement fleece. Once the first layer has cured, the top coat of IKO tanetech R-UV is applied.

9.2.15 Detailing (eg upstands) must be carried out in accordance with the Certificate holder's instructions.

9.2.16 The Certificate holder's Technical Services can provide further advice, but such advice is outside the scope of this Certificate.

9.2.17 The NHBC requires that IKO tanetech R-EC/UV once installed, is inspected in accordance with *NHBC Standards* 2024, Chapter 7, Clause 7.1.11, and undergoes an appropriate integrity test, where required. Any damage to the system assessed in this Certificate must be repaired in accordance with section 9.4 of this Certificate and reinspected, in order to maintain system performance.

### 9.3 Workmanship

Practicability of installation was assessed by the BBA on the basis of the Certificate holder's information. To achieve the performance described in this Certificate, the system must only be installed by contractors who have been trained and approved by the Certificate holder.

### 9.4 Maintenance and repair

9.4.1 Ongoing satisfactory performance of the system in use requires that it is suitably maintained. The guidance provided by the Certificate holder was assessed by the BBA and found to be appropriate and adequate.

9.4.2 The following requirements apply in order to satisfy the performance assessed in this Certificate:

9.4.2.1 The system must be the subject of six-monthly inspections and maintenance in accordance with the recommendations of BS 6229 : 2018, Chapter 7, and the Certificate holder's own maintenance requirements, where relevant, to ensure continued satisfactory performance.

9.4.2.2 Should minor damage occur, it must be rectified by cleaning back to unweathered material, and an appropriate remedial system applied in accordance with the Certificate holder's instructions to the damaged area.

## 10 **Manufacture**

10.1 The production processes for the system 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 system is delivered to site in packaging bearing the product name, the Certificate holder's name, health and safety information, colour and weight of contents in kilograms.

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 system components must be stored in the hermetically sealed packaging in a dry, cool and frost-free location.

## 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 system components under the *GB CLP Regulation* and *CLP Regulation (EC) No 1272/2008 - classification, labelling and packaging of substances and mixtures*. Users must refer to the relevant Safety Data Sheet(s).

### CE marking

The Certificate holder has taken the responsibility of CE marking the system in accordance with EAD 030350-00-0402.

### 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 Bureau Veritas (Certificate BEO12607).

### Additional Certification

The management system of the manufacturer has been assessed and registered as meeting the requirements of ISO 14001 : 2015 by Bureau Veritas (Certificate BEO12609).

### Additional information on installation

Installation must be in accordance with the relevant clauses of Liquid Roofing and Waterproofing Association (LRWA) Note 7 – *Specifier Guidance for Flat Roof Falls*.

## Bibliography

BS 6229 : 2018 *Flat roofs with continuously supported flexible waterproof coverings — Code of practice*

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

BS 8000-4 : 1989 *Workmanship on building sites — Code of practice for waterproofing*

BS EN 1931 : 2000 *Flexible sheets for waterproofing — Bitumen, plastic and rubber sheets for roof waterproofing — Determination of water vapour transmission properties*

BS EN 1991-1-1 : 2002 *Eurocode 1 : Actions on structures — General actions— Densities, self-weight, imposed loads for buildings*

NA to BS EN 1991-1-1 : 2002 *UK National Annex to Eurocode 1 : Actions on structures — General actions— Densities, self-weight, imposed loads for buildings*

BS EN 1991-1-3 : 2003 + A1 : 2015 *Eurocode 1 : Actions on structures — General actions — Snow loads*

NA to BS EN 1991-1-3 : 2003 + A1 : 2015 *UK National Annex to Eurocode 1 : Actions on structures — General actions — Snow loads*

BS EN 1991-1-4 : 2005 + A1 : 2010 *Eurocode 1 : Actions on structures — General actions — Wind actions*

NA to BS EN 1991-1-4 : 2005 + A1 : 2010 *UK National Annex to Eurocode 1 : Actions on structures — General actions — Wind actions*

BS EN ISO 527-4 : 1997 *Plastics — Determination of tensile properties — Test conditions for isotropic and orthotropic fibre-reinforced plastic composites*

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

EN 13501-5 : 2005 + A1 : 2009 *Fire classification of construction products and building elements — Classification using data from external fire exposure to roof tests*

EOTA TR-003 : 2004 *Determination of the watertightness*

EOTA TR-004 : 2004 *Determination of the resistance to delamination*

EOTA TR-006 : 2004 *Determination of the resistance to dynamic indentation*

EOTA TR-007 : 2003 *Determination of the resistance to static indentation*

EOTA TR-008 : 2004 *Determination of the resistance to fatigue movement*

EOTA TR-010 : 2004 *Exposure procedure for artificial weathering*

ISO 9001 : 2015 *Quality management systems — Requirements*

ISO 14001 : 2015 *Environmental management systems — Requirements with guidance for use*

## 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

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