

## Polyroof Products Limited

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Agrément Certificate  
**09/4676**  
Product Sheet 1

## POLYROOF ROOF WATERPROOFING SYSTEMS

### PROTEC

This Agrément Certificate Product Sheet<sup>(1)</sup> relates to Protec, a liquid-applied roof waterproofing system for use on flat, completely flat and sloped roofs, in warm, cold, inverted and green roof specifications.

(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 system will resist the passage of moisture into the building (see section 6).

**Properties in relation to fire** — the system will enable a roof to be unrestricted under the Building Regulations (see section 7).

**Adhesion** — the adhesion of the system is sufficient to resist the effects of any likely wind suction and the effects of thermal or other minor movement likely to occur in practice (see section 8).

**Resistance to mechanical damage** — the system will accept, without damage, the limited foot traffic and loads associated with installation, maintenance and pedestrian traffic on defined walkways (see section 9).

**Durability** — under normal service conditions, the system will provide a durable waterproof covering with a service life of at least 25 years when exposed (see section 11).

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

A handwritten signature in black ink, appearing to read 'John Albon'.

Date of Third issue: 12 August 2015

John Albon — Head of Approvals

A handwritten signature in black ink, appearing to read 'Claire Curtis-Thomas'.

Originally certificated on 11 August 2009

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.bbacerts.co.uk](http://www.bbacerts.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.*

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# Regulations

In the opinion of the BBA, Protec, 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> B4(2)	<b>External fire spread</b>
<b>Comment:</b>	On suitable non-combustible substructures the system will enable a roof to be unrestricted under this Requirement. See sections 7.1 to 7.4 of this Certificate.
<b>Requirement:</b> C2(b)	<b>Resistance to moisture</b>
<b>Comment:</b>	Data for water resistance indicate that the system, including joints, meets this Requirement. See section 6.1 of this Certificate.
<b>Regulation:</b> 7	<b>Materials and workmanship</b>
<b>Comment:</b>	The system is acceptable. See section 11.1 and the <i>Installation</i> part of this Certificate.



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

<b>Regulation:</b> 8(1)(2)	<b>Durability, workmanship and fitness of materials</b>
<b>Comment:</b>	The system satisfies the requirement of this Regulation. See sections 10.1, 10.2 and 11.1 and the <i>Installation</i> part of this Certificate.
<b>Regulation:</b> 9	<b>Building standards applicable to construction</b>
<b>Standard:</b> 2.8	<b>Spread from neighbouring buildings</b>
<b>Comment:</b>	On suitable non-combustible substructures the use of the system will be regarded as having low vulnerability under clause 2.8.1 <sup>(1)(2)</sup> of this Standard. See sections 7.1 to 7.4 of this Certificate.
<b>Standard:</b> 3.10	<b>Precipitation</b>
<b>Comment:</b>	Data for water resistance indicate that the use of the system will enable a roof to satisfy the requirements of this Standard, with reference to clauses 3.10.1 <sup>(1)(2)</sup> and 3.10.7 <sup>(1)(2)</sup> . See section 6.1 of this Certificate.
<b>Standard:</b> 7.1(a)	<b>Statement of sustainability</b>
<b>Comment:</b>	The system 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.
<b>Regulation:</b> 12	<b>Building standards applicable to conversions</b>
<b>Comment:</b>	All comments given for this system under Regulation 9, 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> 23(a)(b)(i)	<b>Fitness of materials and workmanship</b>
<b>Comment:</b>	The system is acceptable. See section 11.1 and the <i>Installation</i> part of this Certificate.
<b>Regulation:</b> 28(b)	<b>Resistance to moisture and weather</b>
<b>Comment:</b>	Data for water resistance indicate that the use of the system will enable a roof to satisfy the requirements of this Regulation. See section 6.1 of this Certificate.
<b>Regulation:</b> 36(b)	<b>External fire spread</b>
<b>Comment:</b>	On suitable non-combustible substructures the use of the system will be unrestricted by the requirements of this Regulation. See sections 7.1 to 7.4 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: 3 *Delivery and site handling* (3.2) and 13 *Precautions* of this Certificate.

# Additional Information

## NHBC Standards 2014

NHBC accepts the use of Protec, provided it is installed, used and maintained in accordance with this Certificate, as meeting Technical Requirement R3 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 system, in accordance with European Technical Assessment 15/0142, issued under ETAG 005 : 2004 Parts 1 and 4. 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 Protec is a liquid-applied, glass-reinforced, flexible modified polyester system, available in unpigmented or pre-pigmented versions.

1.2 Protec consists of:

- Protec — a flexible, modified polyester resin
- Polyroof Pigment — a pigment dispersed in polyester resin, available in two standard colours, chromite grey and light grey; other non-standard colours are available on request
- Polyroof Powder Catalyst — 50% dibenzoyl peroxide powder
- Polymat — a 450 g·m<sup>-2</sup> glassfibre mat for reinforcing the system
- Polygrit — an optional surface finish to provide an anti-slip surface if required.

1.3 The Protec resin has the nominal characteristics of:

Specific gravity	1.33
Gel time at 25°C	18 minutes
Viscosity	1200–1600 mPa·s <sup>-1</sup>
Thixotropic index	5.0.

1.4 The levels of use categories in accordance with ETAG 005 : 2004 from ETA 15/0142 are:

External fire performance	B <sub>ROOF</sub> (t4)*
Reaction to fire	Euroclass F*
Categorisation by working life	W3*
Categorisation by climatic zones	M*
Categorisation by imposed loads	P4*
Categorisation by roof slope	S1 to S4*
Categorisation by surface temperature	
lowest	TL3*
highest	TH4*
Resistance to wind loads	>50 kPa*
Statement on dangerous substances	none contained*.

1.5 Ancillary items are for use with the system are:

- Uni-Primer S — a standard primer for preparing bituminous, wood, concrete, and some other substrates
- Uni-Primer DP — an alternative primer for preparing bituminous, wood, concrete, and other substrates as approved by the Certificate holder
- Metallic Primer — a primer for preparing metal substrates
- Mordant T-Wash — a pre-treatment for new galvanized steel or zinc substrates
- proprietary anti-fungicidal solution — a fungicide for the removal of algae and moss prior to application
- Protec Taping Mat — a reinforcing tape for use at points of weakness such as detailing, protrusions and over cracks
- Protec MMA resin — a liquid-applied methyl methacrylate resin that may be used over excessive movement joints and other special case applications
- Protec Accelerator — an additive to allow application at lower temperatures
- Uni-Primer DP Accelerator — an additive to allow application at lower temperatures
- preformed trims — a range of factory-manufactured GRP trims, including upstand fixing trim, drip trim, fillet trim and flat trim
- acetone — for use in cleaning tools.

## 2 Manufacture

2.1 Protec, Uni-Primer DP and accelerators are manufactured via a batch blending process using conventional methods.

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 Polyroof Products Limited has been assessed and registered as meeting the requirements of BS EN ISO 9001 : 2008 by the British Board of Agrément (Certificate 11/Q021).

### 3 Delivery and site handling

3.1 The Protec resin component is delivered to site in 10 litre tins bearing the Certificate holder's name, logo, product name, batch number, health and safety data and the BBA logo incorporating the number of this Certificate.

3.2 Protec components and ancillary items classified under the *Classification, Labelling and Packaging of Substances and Mixtures (CLP Regulations) 2009* bear the appropriate hazard warning label. The flashpoints, hazard classifications and packaging sizes of the components and items are given in Table 1.

Table 1 Flashpoints and hazard classifications

Material	Flashpoint (C°)	Classification	Packaging size
Protec	33–34	Flammable, Harmful	10 litre tins
Polyroof Pigment	100	not applicable	0.6 kg and 0.9 kg packs <sup>(1)</sup>
Polymat	not applicable	not applicable	17 m <sup>2</sup> , 30 m <sup>2</sup> and 100 m <sup>2</sup> rolls
Polyroof Powder Catalyst	not applicable	Irritant, Oxidising	0.5 or 1 kg packs
Polygriit	not applicable	not applicable	2.25 or 25 kg packs
Uni-Primer S	17	Highly flammable, Irritant	5 litre containers
Uni-Primer DP	22	Highly flammable, Harmful	5 litre tins
Metallic Primer	45	Flammable, Harmful	5 litre tins
Protec MMA	35	Highly flammable, Irritant	10 litre tins
Mordant T-Wash	29	Flammable, Irritant	5 litre tins
Protec Accelerator	33	Flammable, Harmful	1 litre tins
Uni-Primer DP Accelerator	22	Highly flammable, Harmful	0.5 litre tins

(1) Extra pigment is sometimes used to improve opacity of the top coat.

## Assessment and Technical Investigations

The following is a summary of the assessment and technical investigations carried out on Protec.

### Design Considerations

#### 4 General

4.1 Protec is satisfactory for use as a liquid-applied roof waterproofing system on new or existing flat, completely flat and sloped roofs with limited or pedestrian access in:

- inverted roof specifications
- protected warm and cold roof specifications, eg covered by pavers or other suitable protection
- green roof specifications
- exposed warm and cold roof specifications.

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

- concrete
- asphalt
- plywood<sup>(1)</sup>
- OSB 3<sup>(2)</sup>
- reinforced bitumen membranes (including sanded and mineral surfaced felts)
- insulation<sup>(1)</sup>
- GRP
- single-ply membranes<sup>(2)</sup>
- previously-coated surfaces<sup>(2)</sup>
- small areas of metal incidental to the roof, eg pipe upstands
- small areas of plastic-coated metal incidental to the roof<sup>(1)</sup>.

(1) Grades approved by the Certificate holder.

(2) The advice of the Certificate holder should be consulted on compatibility with the system.

4.3 For the purposes of this Certificate, limited access are defined as those subject only to pedestrian traffic for maintenance of the roof covering, cleaning of gutters, etc. Where traffic in excess of this is envisaged, special precautions, such as additional protection to the membrane, must be taken, for example use of Polygrip or similar, incorporated into the final coat.

4.4 For the purpose of this Certificate, flat roofs are defined as those having a minimum finished fall of 1:80 (For design purposes, twice the minimum finished fall should be assumed unless a detailed analysis of the roof is available, including overall and local deflection, direction of falls, etc.); completely flat roofs are defined as those having a finished fall of less than 1:80; and pitched roofs are defined as those having falls in excess of 1:6.

4.5 Decks to which the product is to be applied must comply with the relevant requirements of BS 6229 : 2003, BS 8217 : 2005 and, where appropriate, *NHBC Standards 2014*, Chapter 7.1.

4.6 For green and inverted roofs, structural decks to which the system is to be applied must be capable of transmitting the dead and imposed loads experienced in service.

4.7 Dead loads and imposed loads for green and inverted roofs are calculated in accordance with BS EN 1991-1-1 : 2002 and BS EN 1991-1-3 : 2003, and their respective UK National Annexes.

4.8 The drainage system for green roofs must be correctly designed, and provision made for access for maintenance. Dead loads for green roofs could also be dramatically increased if the drains become partially or completely blocked, causing waterlogging of the drainage soil layers.

4.9 In inverted roof specifications, the ballast requirements should be calculated in accordance with the relevant parts of BS EN 1991-1-4 : 2005 and its UK National Annex.

## 5 Practicability of installation

The system is only installed by specialist roofing contractors who have been trained and approved by the Certificate holder.

## 6 Weathertightness



6.1 The system will adequately resist the passage of moisture to the inside of the building and enable a structure to meet or comply with the relevant requirements of the national Building Regulations.

6.2 The system is impervious to water and will achieve a weathertight roof capable of accepting minor movement without damage.

6.3 To achieve a weathertight coating, it is essential that the application rate is as quoted in the Certificate holder's literature for the relevant system.

## 7 Properties in relation to fire



7.1 A system comprising a 6 mm calcium silicate board, one coat of Polyroof Uni-Primer at 0.25 litres per m<sup>2</sup>, one coat of Protec at 1.25 litres per m<sup>2</sup>, a layer of Polymat reinforcement and one coat of Protec at 0.50 litres per m<sup>2</sup> tested to DD CEN/TS 1187 : 2012, Test 4 and achieved a classification under BS EN 13501-5 : 2005 of B<sub>ROOF</sub>(t4).

7.2 The membranes, when used in protected or inverted roof specifications, including an inorganic covering listed in the Annex of Commission Decision 2000/553/EC, can be considered to be unrestricted under the national Requirements.

7.3 The designation of other specifications, eg when used on combustible substrates, should be confirmed by:

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

**Scotland** — test to conform to Mandatory Standard 2.8, clause 2.8.1

**Northern Ireland** — test or assessment by a UKAS-accredited laboratory, or an independent consultant with appropriate experience.

7.4 In the opinion of the BBA, when used in irrigated roof gardens or green roofs, the use of the membrane will be unrestricted under the requirements of the national Building Regulations.

7.5 If allowed to dry, the plants used may allow flame-spread across the roof. This must be taken into account when selecting suitable plants for the roof, and appropriate planting, irrigation and/or protection should be applied to ensure that the overall fire-rating of the roof is not compromised.

## 8 Adhesion

The adhesion of the system is sufficient to resist the effects of any wind suction, elevated temperatures, thermal shock or minor movement likely to occur in practice.

## 9 Resistance to mechanical damage

The system can accept, without damage, the limited foot traffic and light concentrated loads associated with installation, maintenance and pedestrian traffic on defined walkways. However, care must be taken to avoid puncture by sharp objects or concentrated loads.

## 10 Maintenance



10.1 Maintenance should include checks and operations to ensure that, where applicable:

- where used, protection layers are in good condition
- the exposed membrane is free from the build-up of silt and other debris and unwanted vegetation is cleared.

10.2 Green roofs must be the subject of regular inspections, particularly in autumn after leaf fall and in the spring, to ensure that unwanted vegetation and other debris are cleared from the roof and drainage outlets (see section 4.8). Guidance is available within the latest edition of *The GRO Green Roof Code — Green Roof Code of Best Practice for the UK*.

10.3 Should a leak occur in the waterproofing layer in green or inverted roof specifications, access to it is achieved by removing the layers above the waterproofing and replacing them following repair.

## 11 Durability



11.1 Results of accelerated weathering tests confirm that a satisfactory retention of properties is achieved. All available evidence indicates that the system should achieve an initial life expectancy, for an exposed roof, of at least 25 years. When fully protected and subjected to normal service conditions in an inverted roof specification with an open covering (eg aggregate pavers), the system can provide an effective barrier to the transmission of liquid water and water vapour for the design life of the roof in which it is incorporated.

11.2 In situations where maintenance or repair of any of the components in the roof structure are necessary (eg protection layer or insulation), the durability of the membrane may be reduced. In these circumstances the Certificate holder should be consulted.

11.3 An estimation cannot be given for the life of green roof specifications owing to the nature of use; however, under normal circumstances, it should be significantly greater than for exposed waterproof coverings.

## Installation

### 12 General

12.1 Installation of Protec must be carried out only by specialist roofing contractors trained and approved by the Certificate holder in accordance with the installation manual.

12.2 Application of the system is carried out at a minimum substrate temperature and air temperature of 3°C stable (1°C with the use of accelerators), rising to a maximum air temperature of 30°C and substrate temperature of 40°C. The system must not be installed in rain, snow, fog or misty conditions, or when the relative humidity is above 95%.

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

12.4 Soil or other bulk material must not be stored on one area of the roof prior to installation, to ensure that localised overloading does not occur.

### 13 Precautions

13.1 Vapours from the system may cause sensitisation and irritation to the respiratory system, eyes and skin. The system must only be used in areas with sufficient ventilation to prevent the build-up of vapours. Contact with the skin, eyes and clothing must be avoided. The supplier's instructions and the relevant safety regulations for working procedures must be adhered to at all times.

13.2 The system must not be allowed to get into the waste drainage system. Care must also be taken to prevent vapours entering the inside of the building, eg by closing doors and windows.

### 14 Site and surface preparation

14.1 Substrates on which the system is applied must be properly prepared in accordance with the Certificate holder's instructions.

14.2 Adhesion to substrates depends on the condition and cleanliness of the substrate. Substrates must be visibly dry, sound and free from loose materials or contamination (eg moss or algae). In cases of doubt the advice of the Certificate holder's Technical Department should be sought.

14.3 Any areas of fungal growth or moss must be treated with an approved, proprietary anti-fungal solution to ensure that all spores are destroyed.

14.4 High pressure sand-blasting or water-jetting may be used to remove loose or flaking materials and residues following treatment with the anti-fungal wash, but the substrate must be visibly dry before application of the system.

14.5 Damaged areas of the substrate (eg broken fibre-cement sheets or blistered bitumen roofing felt) must be removed, replaced or repaired.

14.6 Deck surfaces must be free from sharp projections, such as protruding fixing bolts or concrete nibs.

14.7 Gutters and outlets must be checked to ensure that they are, and remain, clear of all debris.

14.8 New galvanized steel and zinc substrates are treated with Mordant T-Wash at a coverage rate of 1.5 m<sup>2</sup> per litre. The wash is allowed to react, and the surface conversion is indicated by a black deposit. The surface residue is washed off with water and dried prior to the application of the primer.

14.9 Metal substrates are primed using Metallic Primer at a coverage rate of 8 to 12 m<sup>2</sup> per litre; rough or porous surfaces will significantly reduce coverage rate. The primer should be overcoated within one hour of becoming touch dry; after this period it may be necessary to rub down and/or re-prime the surface.

14.10 Other substrates are primed, using catalysed Polyroof Uni-Primer at a coverage rate of 4 to 6 m<sup>2</sup> per litre. Porous surfaces should be visually checked to ensure an adequate seal and any suspect areas re-primed as necessary. The primer is allowed to dry for at least one hour before overcoating. If the primed surface is left for longer than seven days before application of the system, it is necessary to solvent wipe the surface with acetone prior to the installation of the waterproofing. The catalyst proportion for Uni-Primer S and Uni-Primer DP are given in Table 2 in respect of the surface/air temperature.

*Table 2 Catalyst proportion for Uni Primer S and Uni-Primer DP*

Temperature (°C)	Catalyst addition (%)	
	S	DP
3–10	4–6	3–4
10–20	3–4	2–3
20–35	2	2

## 15 Application

15.1 The system is mixed on site by adding the pigment (if required) and then the catalyst to the resin in the correct proportions. The catalyst is added in the proportions given in Table 3 depending on the surface/air temperature, and stirred in accordance with the mixing instructions.

*Table 3 Catalyst proportion for Protec*

Temperature (°C)	Catalyst addition (%)
3–10	4
10–15	3
15–20	2–3
20–30	2

15.2 One coat of Protec is applied to all upstands, detailing, protrusions, cracks, joints, and stepped joints with adjoining dissimilar substrates, and reinforced with Protec Taping Mat or pre-cut strips of Polymat prior to the application of the main waterproofing. Protec is allowed to dry before overcoating with the main waterproofing.

15.3 The application is normally in two coats. Depending on the substrate, the first coat of resin is applied at the rates given in Table 4, and the Polymat rolled out and laid with 50 mm side and end laps. Extra resin is immediately applied to achieve a closed, pinhole-free surface.

*Table 4 First coat coverage rate<sup>(1)</sup>*

Substrate	Coverage rate (litres per m <sup>2</sup> )
Smooth concrete	1.25–1.30 <sup>(2)</sup>
Plywood	1.25–1.30
Asphalt	1.25–1.30
Sanded felt	1.25–1.30
Mineral felt	1.50–2.00 <sup>(2)</sup>
De-chipped felt/asphalt	1.50–2.00 <sup>(2)</sup>
Single ply	1.25–1.30
GRP	1.25–1.30
Metal	1.25–1.30
Insulation	1.25–1.30

(1) The rates given in the table are indicative only and it is the contractor's responsibility to ascertain the rate used on the specific site.

(2) When applying to very rough, uneven or heavily-mineralised surfaces the coverage rate may be significantly reduced; this should be taken into account when estimating material usage.

15.4 The second coat of resin can be applied as soon as it is practical to do so. However, the maximum period between coats is seven days, after which it is necessary to clean the surface with acetone allowing a further seven days, application time. The coverage rate for the second coat is 0.5 litres per m<sup>2</sup>.

15.5 Joints subjected to excessive movement may require the use of Protec MMA resin as an alternative bridging material; the Certificate holder should be consulted for advice.

## 16 Repairs

Should minor damage occur, it can be rectified by cleaning back to unweathered material, reactivating the surface and applying the Protec system to the damaged area at the total application rate stated in section 15.

## Technical Investigations

### 17 Tests

Tests were conducted on samples of Protec and ancillary products and the results assessed to determine:

- tensile strength and elongation on control, heat aged<sup>(1)</sup> and UV aged<sup>(2)</sup> samples
- tensile adhesion on control, heat aged<sup>(1)</sup> and after water exposed<sup>(3)</sup> samples
- resistance to fatigue on control and after heat ageing<sup>(1)</sup>
- resistance to dynamic impact on control, hard and soft substrates and on a hard substrate at  $-10^{\circ}\text{C}$  on a control, after heat ageing<sup>(1)</sup> and UV ageing<sup>(2)</sup>
- resistance to static indent on control hard and soft substrates and on a hard substrate at  $80^{\circ}\text{C}$  on a control and after water exposure<sup>(3)</sup>.

(1) Heat aged 200 days at  $70^{\circ}\text{C}$ .

(2) UV aged at  $1000 \text{ MJ}\cdot\text{m}^{-2}$  UV-A.

(3) 180 days surface water exposure at  $60^{\circ}\text{C}$ .

### 18 Investigations

18.1 Visits were made to a site in progress to assess the practicability of installation.

18.2 Data on fire performance were evaluated.

18.3 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.

## Bibliography

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

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

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 *Eurocode 1 : Actions on structures — General actions — Snow loads*

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

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

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

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

BS EN ISO 9001 : 2008 *Quality management systems — Requirements*

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

ETAG 005 : Part 1 : 2004 *Liquid Applied Roof Waterproofing Kits — General*

ETAG 005 : Part 4 : 2004 *Liquid Applied Roof Waterproofing Kits — Specific stipulations for Kits based on Flexible Unsaturated Polyester*

## 19 Conditions

19.1 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.

19.2 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.

19.3 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.

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

19.5 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.

19.6 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.