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Agrément Certificate 09/4676

Product Sheet 1 Issue 7

POLYROOF ROOF WATERPROOFING SYSTEMS

PROTEC

This Agrément Certificate Product Sheet⁽¹⁾ relates to Protec, a liquid-applied roof waterproofing system for use on limited access and, where appropriate, pedestrian access roofs, on warm and cold exposed roofs (flat and pitched), green roofs (flat, zero fall and pitched), protected warm and cold roofs (flat and zero fall), inverted roofs (flat and zero fall), blue roofs in combination with a storm water attenuation system⁽²⁾, terraces, balconies and walkways across roof areas.

- (1) Hereinafter referred to as 'Certificate'.
- (2) The storm water attenuation system is outside the scope of this Certificate.

The assessment includes

Product factors:

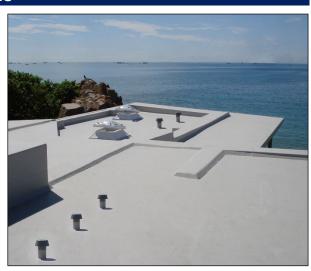
- compliance with Building Regulations
- compliance with additional regulatory or nonregulatory information where applicable
- evaluation against technical specifications
- assessment criteria and technical investigations
- uses and design considerations

Process factors:

- compliance with Scheme requirements
- installation, delivery, handling and storage
- production and quality controls
- · maintenance and repair

Ongoing contractual Scheme elements†:

- regular assessment of production
- · formal 3-yearly review



KEY FACTORS ASSESSED

- Section 1. Mechanical resistance and stability
- Section 2. Safety in case of fire
- Section 3. Hygiene, health and the environment
- Section 4. Safety and accessibility in use
- Section 5. Protection against noise
- Section 6. Energy economy and heat retention
- Section 7. Sustainable use of natural resources
- Section 8. Durability

The BBA has awarded this Certificate to the company named above for the 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 Seventh issue: 16 April 2024 Originally certified on 11 August 2009 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.

British Board of Agrément

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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 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 Building Regulations 2010 (England and Wales) (as amended)

Requirement: B4(1) External fire spread

Comment: The system is restricted by this Requirement in some circumstances. See section 2 of

this Certificate.

Requirement: B4(2) External fire spread

Comment: On suitable substructures, the system may enable a roof to be unrestricted under this

Requirement. See section 2 of this Certificate.

Requirement: C2(b) Resistance to moisture

Comment: The system will enable a roof to satisfy this Requirement. See section 3 of this

Certificate.

Regulation: 7(1) Materials and workmanship

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

The Building (Scotland) Regulations 2004 (as amended)

Regulation: 8(1)(2) Fitness and durability of materials and workmanship

Comment: The system can satisfy the requirements of this Regulation. See sections 8 and 9 of this

Certificate.

Regulation: 8(3) Fitness and durability of materials and workmanship

Comment: The system on balconies is restricted by this Regulation in some circumstances. See

section 2 of this Certificate.

Regulation: 9 Building standards - construction

Standard: 2.2 Separation

Standard: 2.7 Spread on external walls

Comment: Use of the system on balconies is restricted under clauses 2.2.7⁽¹⁾ and 2.7.2⁽¹⁾⁽²⁾ of these

Standards. See section 2 of this Certificate.

Standard: 2.8 Spread from neighbouring buildings

Comment: When applied to a suitable substructure, the system contributes to satisfying this

Standard, with reference to clause $2.8.1^{(1)(2)}$. 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 $3.10.1^{(1)(2)}$ and $3.10.7^{(1)(2)}$. See section 3 of this Certificate.

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Regulation: 12 Building standards - conversion

Comment: Comments in relation to the system under Regulation 9, Standards 1 to 6 also apply to

this Regulation, with reference to clause $0.12.1^{(1)(2)}$ and Schedule $6^{(1)(2)}$.

(1) Technical Handbook (Domestic).

(2) Technical Handbook (Non-Domestic).



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

Regulation: 23(1)(a)(i)(ii) Fitness of materials and workmanship

Comment: (iii)(iv)(b)(i) The system is acceptable. See sections 8 and 9 of this Certificate.

Regulation: 28(b) Resistance to moisture and weather

Comment: The system will enable a roof to satisfy this Regulation. See section 3 of this Certificate.

Regulation: 36(a) External fire spread

Comment: Use of the system is restricted under this Regulation. See section 2 of this Certificate.

Regulation: 36(b) External fire spread

Comment: 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, Protec, 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 other relevant guidance within the chapter and the suitability of the substrate to receive the system.

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

Fulfilment of Requirements

The BBA has judged Protec to be satisfactory for use as described in this Certificate. The system has been assessed as a liquid-applied roof waterproofing system for use on limited access and, where appropriate, pedestrian access roofs, on warm and cold exposed roofs (flat and pitched), green roofs (flat, zero fall and pitched), protected warm and cold roofs (flat and zero fall), inverted roofs (flat and zero fall), blue roofs in combination with a storm water attenuation system⁽¹⁾, terraces, balconies and walkways across roof area.

(1) The storm water attenuation system is outside the scope of this Certificate.

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Product description and intended use

The Certificate holder provided the following description for the system under assessment. Protec consists of:

- Protec Resin a flexible, modified polyester resin
- Polyroof Pigment a pigment dispersed in polyester resin, available in three standard colours, chromite grey, quartz grey and light grey; other non-standard colours are available on request
- Polyroof Powder Catalyst a 50% dibenzoyl peroxide powder
- Polymat a 450 g⋅m⁻² glass fibre mat for reinforcing the system
- PolyFinish a sealer coat for pedestrian access specifications, available in clear, pigmented and unpigmented
- PolyFinish Pigment for use with PolyFinish
- quartz sand (0.7 to 1.2 mm) an alternative grit for walkways and balconies
- Polygrit an optional surface finish to provide an anti-slip surface if required
- ProGrip an optional textured coating, based on a hybrid MMA, to provide an anti-slip surface finish
- Uni-Primer S a standard primer for preparing bituminous membranes, wood and concrete,
- Uni-Primer DP an alternative primer for preparing bituminous membranes, wood and concrete
- Twin Pack Epoxy Metal Primer a two-part primer for preparing metal substrates
- Polyroof Quick Dry 2-Pack Epoxy Primer a two-part primer for preparing metal, concrete, plywood, OSB3 and bituminous membrane substrates
- Polyroof Metal Detailing Primer a single part, low viscosity, moisture curing primer for metal details.

Ancillary Items

The following ancillary items are essential to use with the system and have been assessed with the system:

- Mordant T-Wash a pre-treatment for new galvanized steel or zinc substrates
- 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.

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:

- mineral slate an alternative grit for walkways and balconies
- SP Primer 202 a primer for preparing EPDM, PVC and TPO single-ply substrates
- proprietary anti-fungicidal solution a fungicide for the removal of algae and moss prior to application
- Protec Inhibitor an additive to allow application in elevated temperatures.

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Applications

The system is intended for use on the following substrates:

- concrete
- asphalt
- plywood⁽¹⁾
- OSB 3⁽²⁾
- reinforced bitumen membranes (including sanded and mineral surfaced felts)
- insulation⁽¹⁾
- GRP
- single-ply membranes⁽¹⁾
- previously coated surfaces⁽¹⁾
- small areas of metal incidental to the roof, eg pipe upstands
- small areas of plastic-coated metal incidental to the roof⁽¹⁾.
- (1) The advice of the Certificate holder must be sought on compatibility with the system, but such advice is outside the scope of this Certificate.

The system is intended for use in the following situations:

- as a liquid-applied roof waterproofing system on new or existing roofs with limited or pedestrian access in the following specifications:
- exposed warm and cold flat and pitched roofs⁽¹⁾
- protected warm and cold flat and zero fall roofs (ie covered by pavers or other suitable protection)⁽¹⁾⁽²⁾
- green (extensive) flat, zero fall and pitched roofs⁽¹⁾⁽²⁾
- inverted flat and zero fall roofs⁽¹⁾⁽²⁾.
- blue roofs⁽¹⁾⁽²⁾
- terraces with anti-slip layer⁽²⁾
- walkways across roof areas with anti-slip layer⁽²⁾
- balconies⁽²⁾.
- (1) Limited access.
- (2) Pedestrian access.

Definitions for system and applications inspected

The following terms have been 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
- pedestrian access roof a roof subject only to foot traffic and gathering of people greater than required for maintenance
- flat roof a roof having a minimum finished fall of 1:80⁽¹⁾
- zero fall roof a roof having a minimum finished fall between 0 and 1:80⁽¹⁾
- pitched roof a roof having a fall in excess of 1:6
- green roof a roof with a shallow layer of growing medium planted with low-maintenance plants such as mosses, sedums, grasses and some wild flower species
- invasive plant species vegetation species having vigorous and/or invasive root systems likely to cause damage to components of the inverted roof insulation system and roof waterproofing
- blue roof a flat roof designed to allow controlled attenuation of rain fall during storm events as part of a SUDS good practice policy⁽²⁾.
- (1) NHBC Standards 2024 require a minimum fall of 1:60 for green roofs.
- (2) The storm water attenuation system is outside the scope of this Certificate.

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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 DD CEN/TS 1187 : 2012, Test 4, the constructions given in Table 1 of this Certificate achieved a classification under BS EN 13501-5 : 2016 of $B_{ROOF}(t4)$.

Table 1 External fire exposure classifications				
Layer	System 1 ⁽¹⁾	System 2 ⁽²⁾	System 3 ⁽³⁾	System 4 ⁽⁴⁾
Roof pitch	between 0 and 10°	between 0 and 10°	between 0 and 10°	between 0 and 10°
Substrate		An 18 mm orienta	ted strand board ⁽⁵⁾	
Primer	A po	olymeric adhesive primer ⁽⁵	applied at a rate of 0.15 l	·m ⁻²
AVCL	a 0.6 mm thic	k aluminium faced, bitum	en, self-adhesive vapour c	ontrol layer ⁽⁵⁾
Adhesive		Polyurethan	e adhesive ⁽⁵⁾	
Insulation	A 120 mm thick, foil-	a 150 mm thick tissue-	A 123 mm PIR insulation	A 210 mm thick
	faced polyisocyanurate	faced PIR board ⁽⁵⁾	board with a 3 mm	rockwool insulation
	insulation board (PIR) ⁽⁵⁾		bituminous, puncture	board ⁽⁵⁾
			resistant faced board ⁽⁵⁾	
Deck	_		_	_
Primer	_	A polymeric adhesive	Uni-Primer DP at 0.25 l·m ⁻²	
		primer ⁽⁵⁾ applied at a		
		rate of 0.15 l·m ⁻²		
Carrier	_	a 2.0 mm thick self-	_	_
membrane		adhesive, bitumen		
		carrier membrane ⁽⁵⁾		
First coat	Protec resin at 1.25 l·m ⁻²	Protec resin at 1.50 l⋅m ⁻²	Protec resin at 1.50 l·m ⁻²	Protec resin at 1.50 l⋅m ⁻²
Reinforcement	Polymat			
Second coat	Protec resin at 0.50 l⋅m ⁻²			
Third coat	_	_	Protec resin at 0.50 l·m ⁻²	_
Anti-slip	_	_	0.7 – 1.2 mm quartz sand	_
			broadcast at 2.5 kg⋅m ⁻²	
Sealer coat	_	_	Light grey PolyFinish at	_
			0.60 l⋅m ⁻²	

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Table 1 External fire exposure classifications (continued)					
Layer	System 5 ⁽⁶⁾	System 6 ⁽⁷⁾	System 7 ⁽⁸⁾		
Roof pitch	between 10 and 70°	between 0 and 10°	between 0 and 10°		
Substrate	A	An 18 mm orientated strand board ^{(s}	5)		
Primer	ı	ı	_		
AVCL		300 μm thick polyethylene AVCL ⁽⁵⁾			
Adhesive	ı	ı	_		
Insulation	a 130 mm thick tissue-faced PIR	A 130 mm thick, foil-faced PIR ⁽⁵⁾	A 120 mm thick, foil-faced PIR ⁽⁵⁾		
	board ⁽⁵⁾ mechanically fastened	mechanically fastened	mechanically fastened		
Deck	An 18 mm o	rientated strand board ⁽⁵⁾ mechanica	ally fastened		
Primer	Uni-Primer DP at 0.25 l⋅m ⁻²	A polymeric adhesive primer ⁽⁵⁾	A polymeric adhesive primer ⁽⁵⁾		
		applied at a rate of 0.15 l·m ⁻²	applied at a rate of 0.15 l·m ⁻²		
Carrier	_	a 2.0 mm thick self-adhesive,	a 2.0 mm thick self-adhesive,		
membrane		bitumen carrier membrane ⁽⁵⁾	bitumen carrier membrane ⁽⁵⁾		
First coat	Protec resin at 1.50 l⋅m ⁻²	Protec resin at 1.50 l⋅m ⁻²	Protec resin at 1.50 l·m ⁻²		
Reinforcement	Polymat				
Second coat	Protec resin at 0.50 l·m ⁻²				
Third coat	ı	ı	_		
Anti-slip		ProGrip at 0.85 l⋅m ⁻²	ProGrip at 0.85 l·m ⁻²		
Sealer coat	1	1	Clear PolyFinish at 0.60 l⋅m ⁻²		

⁽¹⁾ Fire test and classification reports, references P110210-1001 and P110210-1002 respectively, conducted by BRE Global, Report available from the Certificate holder.

- (6) Fire test and classification reports, references Q101049-1004 and Q101049-1005 respectively, conducted by BRE Global, Report available from the Certificate holder.
- (7) Fire test and classification reports, references P125270-1000 and P125270-1001 respectively, conducted by BRE Global, Report available from the Certificate holder.
- (8) Fire test and classification reports, references P124748-1000 and P124748-1001 respectively, conducted by BRE Global, Report available from the Certificate holder.
- 2.1.2 When tested to BS 476-3: 2004 at 0° pitch, the construction given in Table 2 of this Certificate achieved a fire rating of EXT.F.AB.

Table 2 External fire exposure classifications		
Layer	System ⁽¹⁾	
Substrate	A 6 mm calcium silicate board ⁽²⁾	
Primer	Uni-Primer S at 0.25 l⋅m ⁻²	
First coat	Protec Resin at 1.25 l⋅m ⁻²	
Reinforcement	Polymat	
Second coat	Protec Resin at 0.50 l·m ⁻²	

⁽¹⁾ Fire test report, reference 312872, conducted by Exova Warringtonfire, Report available from the Certificate holder.

- 2.1.3 On the basis of data assessed, the constructions listed in Tables 1 and 2 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.
- 2.1.4 A roof incorporating the system will also be unrestricted under the national Building Regulations with respect to proximity from a relevant boundary in the following circumstances:
- when used in protected or inverted roof specifications including an inorganic covering listed in the Annex of Commission Decision 2000/553/EC

• irrigated green roofs.

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⁽²⁾ Fire test and classification reports, references Q100928-1005 and Q100928-1006 respectively, conducted by BRE Global, Report available from the Certificate holder.

⁽³⁾ Fire test and classification reports, references Q101049-1002 and Q101049-1003 respectively, conducted by BRE Global, Report available from the Certificate holder.

⁽⁴⁾ Fire test and classification reports, references Q101049-1000 and Q101049-1001 respectively, conducted by BRE Global, Report available from the Certificate holder.

⁽⁵⁾ These components are outside the scope of this Certificate.

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

- 2.1.5 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.
- 2.1.6 If allowed to dry, the plants used may allow flame-spread across the roof. This must be taken into account when selecting suitable plants, and appropriate planting, irrigation and/or protection should be applied to ensure that the overall fire-rating of the roof is not compromised.

2.2 Reaction to fire

- 2.2.1 The Certificate holder has not declared a reaction to fire classification for Protec.
- 2.2.2 The system will be restricted in use under the documents supporting the national Building Regulations.
- 2.2.3 In England, the system, when used in pitches greater than 70°, excluding upstands, must not be used less than 1 m from a relevant boundary, on residential buildings more than 11 m in height or on other buildings more than 18 m in height. Restrictions apply on assembly and recreation buildings. These constructions must also be included in calculations of unprotected area.
- 2.2.4 In Wales, the system, when used in roof pitches greater than 70°, excluding upstands, must not be used less than 1 m from a relevant boundary, on other buildings more than 18 m in height or, in some cases, on assembly and recreation buildings. These constructions must also be included in calculations of unprotected area.
- 2.2.5 In Northern Ireland, for roofs incorporating the system in pitches greater than 70°, excluding upstands, that do not achieve the minimum Class E reaction to fire classification to BS EN 13501-1: 2018, designers must seek guidance on the proposed use of the system from the relevant Building Control Body.
- 2.2.6 In Scotland, the use of the systems is unrestricted with respect to building height and proximity to a relevant boundary. However, restrictions on the overall construction may apply, depending on the reaction to fire classification achieved by the build-up, which must be established on a case-by-case basis.
- 2.2.7 In England, unless covered with a protection with a reaction to fire of class A1 or A2-s1, d0, for example 40 mm thick cast stone slabs, the system must not be used on balconies of residential buildings with a storey 11 m or more in height or balconies of buildings that have a storey at least 18 m above ground level and contain one or more dwellings, an institution, a room for residential purposes, student accommodation, care homes, sheltered housing, hospitals, dormitories in boarding schools, hotels, hostels or boarding houses.
- 2.2.8 In Wales, unless covered with a protection with a reaction to fire of class A1 or A2-s1, d0, for example 40 mm thick cast stone slabs, the system must not be used on balconies of buildings that have a storey at least 18 m above ground level and contain one or more dwellings, an institution, a room for residential purposes, student accommodation, care homes, sheltered housing, hospitals, dormitories or boarding schools.
- 2.2.9 In Northern Ireland, unless covered with a protection with a reaction to fire of class A1 or A2-s1, d0, for example 40 mm thick cast stone slabs, the system must not be used on balconies of buildings that have a storey at least 18 m above ground level and contain one or more dwellings, an institution, a room for residential purposes (excluding any room in a hostel, hotel or boarding house), student accommodation, care homes, sheltered housing, hospitals, dormitories in boarding schools, nursing homes and places of lawful detention.
- 2.2.10 In Scotland, the system must not be used on balconies of buildings with a storey at a height of 11 m or more above the ground.

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 3.

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Table 3 Weathertightness results			
Product assessed	Assessment method	Requirement	Result
Protec	Watertightness to BS EN 1928: 2000	No leakage	Pass
	60 kPa		
Protec on concrete	Delamination strength to	50 kPa	Pass
Protec on steel primed using Polyroof Quick Dry 2-Pack	EOTA TR-004 : 2004		Pass
Epoxy Primer	_	_	
Protec on steel primed using Polyroof Metal Detailing	-		Pass
Primer	_	_	
Protec on Protec (day joint)			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 bonded system is sufficient to resist the effects of wind suction, elevated temperature and thermal shock conditions likely to occur in practice and remain weathertight.

3.2 Resistance to mechanical damage

3.2.1 Results of resistance to mechanical damage tests are given in Table 4.

Table 4 Resistanc	e to mechanical damage results		
Product assessed	Assessment method	Requirement	Result
Protec on steel	Dynamic indentation to EOTA TR-006 : 2004	Value achieved	
	tested at 23°C		I_4
	tested at -20°C		I_4
Protec on polyurethane			l ₂
insulation board			
Protec on steel	Static indentation to EOTA TR-007 : 2004 tested at 23°C	Value achieved	L ₄
Protec on polyurethane insulation board			L ₄
Protec	Fatigue to EOTA TR-008: 2004	Watertight and less than	Pass
	tested at -10°C for 1000 cycles	75 mm delamination from substrate	
Protec	Tensile strength to BS EN ISO 527-3: 2003	Value achieved	
	control		2591 N·(50 mm) ⁻¹
	cured at 3°C		2303 N·(50 mm) ⁻¹
	cured at 40°C		2568 N·(50 mm) ⁻¹
Protec	Elongation at maximum load to BS EN ISO 527-3: 2003		
	control		3.3%
	cured at 3°C		3.4%
	cured at 40°C		3.4%

- 3.2.2 On the basis of data assessed, the system can accept, without damage, the foot traffic and light concentrated loads associated with installation, 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 pedestrian access roofs or for maintenance of lift equipment, either the pedestrian access specification must be used or other suitable protection must be provided (for example, using concrete slabs supported on bearing pads). Reasonable care must be taken to avoid puncture by sharp objects or concentrated loads.
- 3.2.4 The system is capable of accepting minor structural movement while remaining weathertight.

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3.3 Resistance to root penetration

In green roofs using plants with non-invasive roots, the roof waterproofing layer will adequately resist root penetration, subject to routine maintenance being carried out in accordance with this Certificate and as recommended by the Green Roof Organisation (GRO) *Code of Best Practice*.

4 Safety and accessibility in use

Data were assessed for the following characteristics.

4.1 Skid resistance

4.1.1 Results of skid resistance tests are given in Table 5.

Table 5 Skid resistance results			
Product assessed	Assessment method	Requirement	Result
Protec with quartz sand and Polyfinish	Slip resistance using a pendulum tester to BS 7976-2: 2002	Greater than or equal to a PTV ⁽¹⁾ of 36	
•	dry		Pass
	wet		Pass
Protec with ProGrip	dry		Pass
	wet		Pass
Protec with ProGrip and	dry		Pass
Polyfinish	wet		Pass

⁽¹⁾ Mean pendulum test value.

4.1.2 On the basis of data assessed, the system, when installed with the anti-slip layer, has a satisfactory skid resistance in dry and wet conditions to allow it to be used in areas of pedestrian access.

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 product were assessed.
- 8.2 Specific test data were assessed as given in Table 6.

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Table 6 Results of dur	rability tests		
Product assessed	Assessment method	Requirement	Result
Protec on concrete	Delamination strength to EOTA TR-004 : 2004	50 kPa	Pass
	after 180 days at 60°C water exposure to		
	EOTA TR-012 : 2004		
Protec on steel	Dynamic indentation to EOTA TR-006: 2004	Value achieved	
	after heat ageing 240 days at 70°C to		
	EOTA TR-011 : 2004 tested at -20°C		14
	after UV ageing 1200 MJ·m² at 50°C to		
	EOTA TR-010 : 2004		
	tested at -10°C		I_4
Protec on steel	Static indentation to EOTA TR-007: 2004	Value achieved	L ₄
	after 216 days at 60°C water exposure to		
	EOTA TR-012 : 2004		
	tested at 80°C		
Protec	Fatigue to EOTA TR-008 : 2004	Watertight and less than	Pass
	after heat ageing 200 days at 70°C to	75 mm delamination	
	EOTA TR-011 : 2004	from substrate	
	tested at -10°C for 50 cycles		
Protec	Tensile strength to BS EN ISO 527-3: 2003	Value achieved	
	after heat ageing 240 days at 70°C to		
	EOTA TR-011 : 2004		3850 N·(50 mm) ⁻¹
	after UV ageing 1200 MJ·m² at 50°C to		
	EOTA TR-010 : 2004		4742 N·(50 mm) ⁻¹
Protec	Elongation at maximum load to		
	BS EN ISO 527-3 : 2003		
	after heat ageing 240 days at 70°C to		
	EOTA TR-011 : 2004		0.9%
	after UV ageing 1200 MJ·m² at 50°C to		
	EOTA TR-010 : 2004		1.8%

8.3 Service life

- 8.3.1 Under normal service conditions, the system will have a life of at least 30 Years, provided it is designed, installed and maintained in accordance with this Certificate and the Certificate holder's instructions.
- 8.3.2 When fully protected, under normal service conditions, the system will have a life of at least equivalent to the roof in which it is incorporated, provided it is designed, installed and maintained in accordance with this Certificate and the Certificate holder's instructions.
- 8.3.3 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 must be consulted, but such advice is outside the scope of this Certificate.
- 8.3.4 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.

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PROCESS ASSESSMENT

Information provided by the Certificate holder was assessed for the following factors:

9 Design, installation, workmanship and maintenance

9.1 Design

- 9.1.1 The design process was assessed by the BBA, and the following requirements apply in order to satisfy the performance assessed in this Certificate.
- 9.1.2 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, direction of falls etc.
- 9.1.4 Terraces and balconies, to which the system is to be applied, must be designed in accordance with BS 8579 : 2020.
- 9.1.5 Where regular pedestrian traffic is envisaged, special precautions such as additional protection to the membrane must be taken; for example, quartz sand (0.7 1.2 mm), Polygrit or similar incorporated into the final coat.
- 9.1.6 Structural decks to which the system is to be applied must be suitable to transmit the dead and imposed loads experienced in service. Allowance needs to be made for loading deflections to ensure that the free drainage of water is maintained.
- 9.1.7 Imposed loads, dead loads and wind 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
- 9.1.8 The ballast requirements for inverted specifications must be calculated by a suitably experienced and competent individual in accordance with the principles of BS EN 1991-1-4: 2005 and its UK National Annex. The system must be ballasted with a minimum depth of 50 mm of aggregate. In areas of high wind exposure, the Certificate holder's advice must be sought, but this is outside the scope of this Certificate. Alternatively, concrete slabs on suitable supports can be used.
- 9.1.9 The growing medium used in green roofs and ballast on inverted/protected roofs must not be of a type that will be removed or become delocalised owing to wind scour experienced on the roof.
- 9.1.10 For green roofs, invasive non-native alien plant species as defined by UK Government guidance must not be used.
- 9.1.11 For green roof finishes, in order to protect the roof waterproofing and any system components above the waterproofing, such as insulation or water flow reducing layer, invasive plant species must not be used. In particular, the following species must be excluded:
- invasive weeds including Buddleia
- plants and grasses with aggressive rhizomes such as Bamboo
- self-setting woody weeds such as Sycamore and Ash seedlings should be removed at early germination stage
- other woody plants which spread aggressively including Rhododendron.
- 9.1.12 The Green Roof Organisation (GRO) can provide guidance on species not included in section 9.1.11 but such advice is outside the scope of this Certificate.

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- 9.1.13 The drainage systems for inverted roofs, zero fall roofs or green roofs must be correctly designed, and the following points must be addressed:
- provision made for access for maintenance purposes
- for zero fall roofs, it is particularly important to identify the correct drainage points, to ensure that drainage is sufficient and effective
- dead loads for green roofs can increase if the drains become partially or completely blocked causing waterlogging of the drainage layer
- 9.1.14 Insulation materials to be used in conjunction with the system must be in accordance with the Certificate holder's instructions and must be either:
- as described in the relevant clauses of BS 6229 : 2018, or
- the subject of a current BBA Certificate and used in accordance with the scope of that Certificate.
- 9.1.15 The NHBC requires that the roof membranes, once installed, are inspected in accordance with *NHBC Standards* 2024, Chapter 7.1, Clause 7.1.11, and undergo an appropriate integrity test, where required. Any damage to the membrane is repaired in accordance with section 9.4 of this Certificate and reinspected.

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 must be carried out in accordance with this Certificate and the Certificate holder's instructions. A summary of instructions and guidance are provided in Annex A of this Certificate.
- 9.2.3 Installation of Protec must be carried out in accordance with the Certificate holder's instructions and this Certificate.
- 9.2.4 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 Protec Accelerator and Uni-Primer DP Accelerator), 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%.
- 9.2.5 Detailing (eg upstands) must be carried out in accordance with the Certificate holder's instructions. Metal details are primed using Polyroof Metal Detailing Primer applied by brush at an application rate of 50 to 150 ml·m⁻².
- 9.2.6 Growing medium 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.
- 9.2.7 Substrates on which the system is applied must be properly prepared in accordance with the Certificate holder's instructions.
- 9.2.8 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 must be sought, but such advice is outside the scope of this Certificate.
- 9.2.9 Any areas of fungal growth or moss must be treated with an approved, proprietary anti-fungal solution to ensure that all spores are destroyed.
- 9.2.10 High pressure sand-blasting or water-jetting must 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.
- 9.2.11 Damaged areas of the substrate, for example, blistered reinforced bitumen membranes, must be removed, replaced or repaired.

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- 9.2.12 Deck surfaces must be free from sharp projections, such as protruding fixing bolts or concrete nibs.
- 9.2.13 Gutters and outlets must be checked to ensure that they are, and remain, clear of all debris.
- 9.2.14 New galvanized steel and zinc substrates must be treated with Mordant T-Wash at a coverage rate of 15 m²·l⁻¹. 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.
- 9.2.15 Metal substrates must be primed using Twin Pack Epoxy Metal Primer at a coverage rate of 5 to 10 m²·l⁻¹, rough or porous surfaces will significantly reduce coverage rate. The primer must be left to dry for a minimum of 2 hours and ideally between 8 and 24 hours to maximize adhesion. The maximum overcoating period is 14 days; after this period, it may be necessary to rub down and/or re-prime the surface.
- 9.2.16 Metal details, such as penetrating pipes, are primed using Polyroof Metal Detailing Primer at a coverage rate of 50 to 150 ml·m⁻², surface type could affect the coverage rate. The primer should be left to dry for a minimum of 15 to 30 minutes and a maximum of 24 hours; the curing time will be affected by temperature.
- 9.2.17 For substrates primed using Polyroof Quick Dry 2-Pack Epoxy Primer the coverage rate is 10 to 15 $\text{m}^2 \cdot \text{l}^{-1}$, rough or porous surfaces will significantly reduce coverage rate. The primer should be left to dry for a minimum of 2 to 4 hours.
- 9.2.18 Other substrates must be primed, using catalysed Polyroof Uni-Primer DP at a coverage rate of 4 to 6 m²·l⁻¹. Porous surfaces should be visually checked to ensure an adequate seal and any suspect areas re-primed as necessary. The primer must be 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 proportions for Uni-Primer S and Uni-Primer DP are given in Table 7 for a range of surface/air temperatures.

Table 7 Catalyst proportion for Uni-Primer S and Uni-Primer DP				
Temperature (°C)	Catalyst addition (%)			
	Uni-Primer S	Uni-Primer DP		
3 – 10	4 – 6	3 – 4		
10 – 20	3 – 4	2 – 3		
20 – 35	2	2		

9.2.19 Protec 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 8, depending on the surface/air temperature, and stirred in accordance with the mixing instructions.

Table 8 Catalyst proportion for Protec		
Temperature (°C)	Catalyst addition (%)	
3 – 10	4	
10 – 15	3	
15 – 20	2 – 3	
20 – 30	2	

- 9.2.20 One coat of Protec is applied to all upstands, detailing, protrusions, cracks, joints, and stepped joints with adjoining dissimilar substrates, and reinforced with Taping Mat or pre-cut strips of Polymat prior to the application of the main waterproofing. This layer of Protec is allowed to dry before overcoating with the main waterproofing layers of the same material.
- 9.2.21 The application is normally in two coats. Depending on the substrate, the first coat of resin is applied at the rates given in Table 9, and Polymat rolled out and laid with 50 mm side and end laps. Extra resin is immediately applied to achieve a closed, pinhole-free surface.

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Table 9 First coat coverage rate ⁽¹⁾		
Substrate	Coverage rate (I·m ⁻²)	
Smooth concrete	$1.25 - 1.50^{(2)}$	
Plywood	1.25 – 1.50	
Asphalt	1.25 – 1.50	
Sanded felt	1.25 – 1.50	
Mineral felt	$1.50 - 2.00^{(2)}$	
De-chipped felt/asphalt	$1.50 - 2.00^{(2)}$	
Single ply	1.25 – 1.50	
GRP	1.25 – 1.50	
Metal	1.25 – 1.50	
Insulation	1.25 – 1.50	

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

- 9.2.22 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 l·m⁻².
- 9.2.23 Joints subjected to excessive movement may require the use of Protec MMA Resin as an alternative bridging material; the Certificate holder must be consulted for advice, but such advice is outside the scope of this Certificate.
- 9.2.24 When an anti-skid finish is required, an additional third coat of Protec is applied at a coverage rate of $0.5 \, \mathrm{l \cdot m^{-2}}$ to the waterproofing system. Quartz sand (0.7 1.2 mm) is broadcast in excess, approximately 4 kg·m⁻², into the wet resin. The loose excess quartz sand is removed to leave a coverage of approximately 2.5 kg·m⁻².
- 9.2.25 The quartz sand is sealed with a coat of PolyFinish at a coverage rate of 0.6 l·m⁻². PolyFinish is catalysed with Polyroof Powder Catalyst in accordance with the Certificate holder's instructions.
- 9.2.26 Alternatively, ProGrip anti-skid coating is used over the two-coat system at an average coverage rate of 0.85 $l \cdot m^{-2}$. ProGrip is installed either with or without a coat of clear PolyFinish at a coverage rate of 0.6 $l \cdot m^{-2}$.

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 visual six-monthly inspections and maintenance in accordance with the recommendations in BS 6229: 2018, Chapter 7, and the Certificate holder's own maintenance requirements. These inspections must be carried out by a suitably competent and experienced individual to ensure continued satisfactory performance. This must include an examination of the condition of the roof finishes and ensure that drain outlets and gutters are kept clear and unblocked.
- 9.4.2.2 Green roofs must be the subject of regular inspections, particularly in autumn after leaf fall and in spring, to ensure unwanted vegetation and other debris is cleared from the roof and drainage outlets. Guidance is available within the latest edition of *The GRO Green Roof Code of Best Practice*.
- 9.4.2.3 For green roofs, to protect the waterproofing, invasive plant species (see sections 9.1.11 and 9.1.12) must be eliminated through maintenance.

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

9.4.2.4 The control and removal of invasive plant species is carried out by hand. Where this is not possible, any chemicals used must be checked for compatibility with the roof waterproofing layer and any system components above the waterproofing, such as insulation or water flow reducing layer. The Certificate holder can advise on the suitability of a particular product, but such advice is outside the scope of this Certificate.

Note: If using chemicals, green roof rainwater outlets may need to be disconnected from the main drainage system to prevent contamination of the local water system and/or harm to flora and fauna.

- 9.4.2.5 The chemical fertiliser used on green roofs must be checked for compatibility with the roof waterproofing layer and any system components above the waterproofing, such as insulation or water flow reducing layer. The Certificate holder can advise on the suitability of a particular product, but such advice is outside the scope of this Certificate.
- 9.4.2.6 If a leak occurs in the roof waterproof membrane in a protected specification, it must be repaired following removal of any system components above the waterproofing.
- 9.4.2.7 If minor damage occurs, it can be rectified by cleaning back to unweathered material, reactivating the surface and applying the system to the damaged area at the total application rate stated in section 9.2.21.
- 9.4.2.8 The anti-slip layer may require maintenance and repair for either cosmetic or anti-slip performance. In most situations a visual inspection will reveal if the sealer coat has worn away. A further application of the sealer coat is then required, at the coverage rate given in sections 9.2.24 and 9.2.26. Preparation before coating includes a thorough clean and, if any of the original sealer coat remains, a solvent wipe. A small quantity of extra quartz sand may be required to be broadcast onto the wet sealer coat and rolled in to maintain anti-slip properties.
- 9.4.2.9 If more severe wear of the anti-slip layer has occurred, with a significant loss of the quartz sand or ProGrip coating, the full anti-slip layer specification should be applied (see sections 9.2.23, 9.2.24 and 9.2.26) following appropriate surface preparation in accordance with the Certificate holder's instructions.

10 Manufacture

- 10.1 The production processes for the product have been assessed, and provide assurance that the quality controls are satisfactory according to the following factors:
- 10.1.1 The manufacturer has provided documented information on the materials, processes, testing and control factors.
- 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 components are delivered to site in packaging bearing the Certificate holder's name, logo, product name, batch number and health and safety data.

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- 11.2 Delivery and site handing must be performed in accordance with the Certificate holder's instructions and this Certificate, including:
- 11.2.1 The liquid components must be stored unopened.
- 11.2.2 All components must be stored undercover and in the dry, at the recommended storage temperatures.
- 11.3 The system components and ancillary items packaging type and size are given in Table 10.

Table 10 Packaging		
Component/item	Package type	Size
Protec resin	Tins	10 litres
Polyroof Pigment ⁽¹⁾	Packs	0.6 and 0.9 kg
Polymat	Rolls	17, 30 and 100 m ²
Polyroof Powder Catalyst	Packs	0.5 or 1 kg
PolyFinish		
Clear	Tins	10 kg (10.3 litres)
Pigmented	Tins	10 kg (9.6 litres)
Unpigmented	Tins	8.5 kg (8.7 litres)
PolyFinish Pigment	Tins	1.5 kg (0.9 litres)
Polygrit	Packs	2.25 or 25 kg
ProGrip	Tins	10 kg
Uni-Primer S	Containers	5 litres
Uni-Primer DP	Tins	5 litres
Polyroof Quick Dry 2-Pack Epoxy Primer	Tins	4 litres total volume of the two-pack kit
Twin Pack Epoxy Metal Primer	Tins	4 litres
Polyroof Metal Detailing Primer	Tins, six to a box	250 millilitres
Protec MMA resin	Tins	10 litres
Mordant T-Wash	Tins	5 litres
Protec Accelerator	Tins	1 litres
Protec Inhibitor	Tins	125 millilitres (105 g)
Uni-Primer DP Accelerator	Tins	0.5 litres

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ANNEX A – SUPPLEMENTARY INFORMATION †

Supporting information in this Annex is relevant to the product but has not formed part of the material assessed for the Certificate.

Construction (Design and Management) Regulations 2015 Construction (Design and Management) Regulations (Northern Ireland) 2016

Information in this Certificate may assist the client, designer (including Principal Designer) and contractor (including Principal Contractor) to address their obligations under these Regulations.

CLP Regulations

The Certificate holder has taken the responsibility of classifying and labelling the 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 Sheets.

UKCA marking

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

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 BS EN ISO 9001 : 2015 by the British Board of Agrément (Certificate 18/Q060).

Additional information on installation

Design

- A.1 When designing a zero fall roof Reference should also be made to the appropriate clauses in Liquid Roofing and Waterproofing Association (LRWA) Note 7 Specifier Guidance for Flat Roof Falls.
- A.2 Recommendations for the design of green roofs and roof garden specifications are available within the latest edition of *The GRO Green Roof Code Green Roof Code of Best Practice for the UK.*

Installation

A.3 Installation of Protec must be carried out in accordance with the relevant clauses of Liquid Roofing and Waterproofing Association (LRWA) Note 7 – Specifier Guidance for Flat Roof Falls.

Maintenance

A.4 Additional guidance on maintenance for green roofs is available within the latest edition of the GRO *Green Roof code – Green Roof Code of Best Practice for the UK*.

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Bibliography

BS 476-3 : 2004 Fire tests on building materials and structures — Classification and method of test for external fire exposure to roofs

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

BS 7976-2: 2002 + A1: 2013 Pendulum testers — Part 2: Method of operation

BS 8579: 2020 Guide to the design of balconies and terraces

BS EN 1991-1-1: 2002 Eurocode 1: Actions on structures — General actions

NA to BS EN 1991-1-1: 2002 UK National Annex to Eurocode 1: Actions on structures — General actions

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

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

BS EN 1991-1-4: 2005 + A1: 2015 Eurocode 1: Actions on structures — General actions

NA to BS EN 1991-1-4: 2005 + A1: 2015 UK National Annex to Eurocode 1: Actions on structures — General actions

BS EN 13501-1 : 2018 Fire classification of construction products and building elements — Classification using data from reaction to fire tests

BS EN 13501-5 : 2016 Fire classification of construction products and building elements — Classification using data from external fire exposure to roofs test

BS EN 1928 : 2000 Flexible sheets for waterproofing — Bitumen, plastic and rubber sheets for roof waterproofing — Determination of watertightness

BS EN ISO 527-3: 2003 Plastics — Determination of tensile properties - Part 3: Test conditions for films and sheets

BS EN ISO 9001 : 2015 Quality management systems — Requirements

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

EAD/UKAD 030350-00-0402 Liquid applied roof waterproofing kits

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

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

EOTA TR-007: May 2004 Determination of the resistance to static indentation

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

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

EOTA TR-011: May 2004 Exposure procedure for accelerated ageing by heat

EOTA TR-012: May 2004 Exposure procedure for accelerated ageing by hot water

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Conditions of Certificate

Conditions

- 1 This Certificate:
- relates only to the product that is named and described on the front page
- is issued only to the company, firm, organisation or person named on the front page no other company, firm, organisation or person may hold or claim that this Certificate has been issued to them
- is valid only within the UK
- has to be read, considered and used as a whole document it may be misleading and will be incomplete to be selective
- is copyright of the BBA
- is subject to English Law.
- 2 Publications, documents, specifications, legislation, regulations, standards and the like referenced in this Certificate are those that were current and/or deemed relevant by the BBA at the date of issue or reissue of this Certificate.
- 3 This Certificate will be displayed on the BBA website, and the Certificate Holder is entitled to use the Certificate and Certificate logo, provided that the product and its manufacture and/or fabrication, including all related and relevant parts and processes thereof:
- are maintained at or above the levels which have been assessed and found to be satisfactory by the BBA
- continue to be checked as and when deemed appropriate by the BBA under arrangements that it will determine
- are reviewed by the BBA as and when it considers appropriate.
- 4 The BBA has used due skill, care and diligence in preparing this Certificate, but no warranty is provided.
- 5 In issuing this Certificate the BBA is not responsible and is excluded from any liability to any company, firm, organisation or person, for any matters arising directly or indirectly from:
- the presence or absence of any patent, intellectual property or similar rights subsisting in the product or any other product
- the right of the Certificate holder to manufacture, supply, install, maintain or market the product
- actual installations of the product, including their nature, design, methods, performance, workmanship and maintenance
- any works and constructions in which the product is installed, including their nature, design, methods, performance, workmanship and maintenance
- any loss or damage, including personal injury, howsoever caused by the product, including its manufacture, supply, installation, use, maintenance and removal
- any claims by the manufacturer relating to UKCA marking and CE marking.

6 Any information relating to the manufacture, supply, installation, use, maintenance and removal of this product which is contained or referred to in this Certificate is the minimum required to be met when the product is manufactured, supplied, installed, used, maintained and removed. It does not purport in any way to restate the requirements of the Health and Safety at Work etc. Act 1974, or of any other statutory, common law or other duty which may exist at the date of issue or reissue of this Certificate; nor is conformity with such information to be taken as satisfying the requirements of the 1974 Act or of any statutory, common law or other duty of care.