Proteus Waterproofing Limited
21a Sirdar Road
Brook Road Industrial Estate
Rayleigh
Essex SS6 7XF

Tel: +44 (0)1268 777871
e-mail: enquiries@proteuswaterproofing.co.uk
website: www.proteuswaterproofing.co.uk

Agrément Certificate
22/6497
Product Sheet 1 Issue 1

PROTEUS LIQUID APPLIED MEMBRANE WATERPROOFING SYSTEMS

PROTEUS PRO-COLD

This Agrément Certificate Product Sheet(1) relates to Proteus Pro-Cold(2), a liquid applied membrane waterproofing system for use on new and existing flat and pitched roofs up to 70° with limited or pedestrian access, including terraces.

(1) Hereinafter referred to as 'Certificate'.
(2) Proteus Pro-Cold is a registered trademark.

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 product described herein. This product has been assessed by the BBA as being fit for its intended use provided it is installed, used and maintained as set out in this Certificate.

On behalf of the British Board of Agrément

Date of issue: 9 June 2023

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
1st Floor, Building 3, Hatters Lane
Croxley Park, Watford
Herts WD18 8YG

©2023

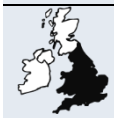
tel: 01923 665300
clientservices@bbacerts.co.uk
www.bbacerts.co.uk

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 Proteus Pro-Cold, 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(2)**	**External fire spread**
Comment:		On suitable substructures, the system may enable a roof to be unrestricted by 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 and the Annex part of this Certificate.

The Building (Scotland) Regulations 2004 (as amended)

Regulation:	**8(1)(2)**	**Fitness and durability of materials and workmanship**
Comment:		The use of the system can satisfy the requirements of this Regulation. See sections 8, 9 and the Annex part of this Certificate.
Regulation:	**9**	**Building standards applicable to construction**
Standard:	2.8	Spread from neighbouring buildings
Comment:		The system, when applied to a suitable substructure, may enable a roof to be unrestricted by clause 2.8.1(1)(2) of this Standard. See section 2 of this Certificate.
Standard:	3.10	Precipitation
Comment:		The use of the system will enable a roof to satisfy the requirements of this Standard, with reference to clauses 3.10.1(1)(2) and 3.10.7(1)(2). 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.
Regulation:	**12**	**Building standards applicable to conversions**
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)(iii)(iv)(b)(i)**	**Fitness of materials and workmanship**
Comment:		The system is acceptable. See sections 8 and 9 and the Annex part of this Certificate.

Regulation:	**28(b)**	**Resistance to moisture and weather**
Comment:		The system will enable a roof to satisfy the requirements of this Regulation. See section 3 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 2023

In the opinion of the BBA, Proteus Pro-Cold, 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 Proteus Pro-Cold to be satisfactory for use as described in this Certificate. Proteus Pro-Cold has been assessed as a waterproofing system on new and existing flat and pitched roofs up to 70° with limited or pedestrian access, including terraces as described in this Certificate.

ASSESSMENT

Product description and intended use

The Certificate holder provided the following description for the system under assessment. Proteus Pro-Cold consists of:

- Proteus Pro-Cold — a single component, moisture curing, thixotropic hybrid polyurethane-polyurea membrane installed by brush, roller or airless spray
- Proteus Pro-Cold Plus — an optional single component, elastic aliphatic polyurethane, UV resistant top coat, installed by brush, roller or airless spray, for use over Proteus Pro-Cold
- Proteus Pro-Force — a 225 $g \cdot m^{-2}$ glass reinforcement
- Proteus Pro-Cold Solvent Primer — a single component, solvent based, moisture curing polyurethane primer for use on concrete and bituminous membrane substrates
- Proteus Pro-Cold Primer WB — a two-component, water-based, epoxy primer for use on bitumen membranes and porous substrates.

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:

- Pro-Bitumen Carrier Membrane SA — a proprietary self-adhesive carrier membrane
- Pro-Vapour Control/ Carrier Membrane SA — a proprietary self-adhesive carrier membrane
- Pro- Prime(1) SA — a single component primer for use in preparing timber and concrete substrates and polymer-modified sand/cement screeds with a moisture content less than 75% relative humidity
- Pro-Aggregate EM (0.5 - 1.0 mm or 0.8 - 1.7mm) or Pro-Quartz (0.4 - 0.8 mm, 0.5 - 1.0 mm or 0.7 - 1.2 mm) — used in conjunction with Proteus Pro-Cold or Proteus Pro-Cold Plus to provide an anti-slip surface

(1) Pro-Prime is a registered trademark.

The system is intended for use on new and existing flat and pitched roofs up to 70° with limited or pedestrian access, including terraces. The system is suitable for use on the following substrates:

- concrete
- reinforced bitumen membranes (including sanded and mineral surfaced).

Definitions for product and applications inspected

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

- flat roof — a roof having a minimum finished fall of 1:80
- pitched roof — a roof having a fall in excess of 1:6
- 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 that is not subjected to vehicular traffic

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 : 2016, the constructions given in Table 1 achieved B_{ROOF}(t4) for slopes below 10°.

Table 1 Tested systems

Substrate	Base coat	Reinforcement	Top coat	UV protection coat
Fibre cement board 5 to 20 mm thick	Proteus Pro-Cold applied at a rate of 1.5 kg·m^{-2} (1 ℓ·m^{-2})	Proteus Pro-Force	Proteus Pro-Cold applied at a rate of 1.8 kg·m^{-2} (1.2 ℓ·m^{-2})	—
Fibre cement board ≥ 8 mm thick	Proteus Pro-Cold applied at a rate of 1.5 kg·m^{-2} (1 ℓ·m^{-2})	Proteus Pro-Force	Proteus Pro-Cold applied at a rate of 1.0 kg·m^{-2} (0.66 ℓ·m^{-2})	Proteus Pro-Cold Plus applied at a rate of 0.3 kg·m^{-2} (0.25 ℓ·m^{-2})

2.1.2 On the basis of data assessed, constructions listed in Table 1 will be unrestricted by the documents supporting the national Building Regulations with respect to proximity to a boundary.

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

2.1.4 The designation and permissible areas of use of other specifications should 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.

Table 2 Weathertightness results

Product assessed	Assessment method	Requirement	Result (Mean)
Proteus Pro-Cold and Proteus Pro-Force	Watertightness by exposure to 60 kPa BS EN 1928 : 2000 (method B)	No evidence of water leakage	Passed
Proteus Pro-Cold and Proteus Pro-Force	Water vapour transmission properties BS EN 1931 : 2000	Value achieved	S_d (equivalent air layer thickness): 5.387 m
Proteus Pro-Cold and Proteus Pro-Force (applied to concrete)	Delamination to EOTA TR 004: 2004	≥50 kPa	Pass
Proteus Pro-Cold and Proteus Pro-Force (applied to mineral felt membrane on insulation)	Delamination to EOTA TR 004: 2004	≥50 kPa	Pass
Proteus Pro-Cold and Proteus Pro-Force (applied to mineral felt membrane on concrete)	Delamination to EOTA TR 004: 2004	≥50 kPa	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 On the basis of data assessed, 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
Proteus Pro-Cold, Proteus Pro-Force	Tensile strength and elongation to BS EN ISO 527-1 : 2019 and BS EN ISO 527-4: 1997	Value achieved	
	Control		979 N per 50 mm /2.97 %
	Control cured for 21 days at 5°C		945 N per 50 mm /3.50 %
	Control cured for 21 days at 35°C		1317 N per 50 mm /2.97 %
Proteus Pro-Cold Primer WB, Proteus Pro-Cold, Proteus Pro-Force	Dynamic indentation to EOTA TR 006 (on steel)	Value achieved	
	Control tested at 21°C		I_4
	Control tested at -30°C		I_4
	Control cured for 21 days at 5°C Tested at 21°C		I_4
	Control cured for 21 days at 35°C Tested at 21°C		I_4
Insulation (PIR), Bitumen membrane, Proteus Pro-Cold Primer WB, Proteus Pro-Cold, Proteus Pro-Force	Dynamic indentation to EOTA TR 006: 2004 (on Insulation and mineral faced bitumen membrane)	Value achieved	
	Tested at 21°C		I_3
Proteus Pro-Cold Primer WB, Proteus Pro-Cold, Proteus Pro-Force	Static indentation to EOTA TR 007 : 2004 (on steel)	Value achieved	
	Control tested at 20°C		L_4
	Control tested at 90°C		L_4
Insulation (PIR), Bitumen membrane, Proteus Pro-Cold Primer WB, Proteus Pro-Cold, Proteus Pro-Force	Static indentation to EOTA TR 007 : 2004 (on insulation and mineral faced bitumen membrane)	Value achieved	
	Tested at 21°C		L_4
Proteus Pro-Cold Solvent Primer, Proteus Pro-Cold, Proteus Pro-Force	Fatigue to EOTA TR 008 : 2004 (on concrete) (1000 cycles at -10°C)	No evidence of leakage after 24 hours exposure to 100 mm head of water. No debonding, or if any not exceeding 75 mm in total or 50 mm on one side of the gap.	Pass

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 pedestrian traffic on defined walkways 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 (for example, using concrete slabs supported on bearing pads). 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 this 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
Proteus Pro-Cold, Proteus Pro-Force	Tensile strength/ Elongation to BS EN ISO 527-1 : 2019 and BS EN ISO 527-4 : 1997	Value achieved	
	Heat aged for 240 days at 80°C		1389 N per 50 mm /2.63 %
	UV aged (Exposure condition `S' (60°C) as defined in EOTA TR-010)		1345 N per 50 mm /2.61 %
Proteus Pro-Cold and Proteus Pro-Force on concrete	Delamination to EOTA TR 004 : 2004 Water exposure 96 days (Dried at ambient for 59 days prior to testing	≥50 kPa	Pass
Proteus Pro-Cold and Proteus Pro-Force applied on Mineral faced bitumen membrane bonded to Concrete	Delamination to EOTA TR 004 : 2004 Water exposure 60 days	≥50 kPa	Pass
Proteus Pro-Cold Primer WB, Proteus Pro-Cold, Proteus Pro-Force	Dynamic indentation to EOTA TR 006 : 2004 (on steel)	Value achieved	
	UV aged (Exposure condition `S' (60°C) as defined in EOTA TR-010) tested at -10°C		I_4
	Heat aged at 80°C for 240 days tested at -10°C		I_4
Proteus Pro-Cold Primer WB, Proteus Pro-Cold, Proteus Pro-Force	Static indentation to EOTA TR 007 : 2004 (on steel)	Value achieved	
	Water exposure at 60°C for 96 days tested at 90°C		L_4
Proteus Pro-Cold Solvent Primer, Proteus Pro-Cold, Proteus Pro-Force	Fatigue to EOTA TR 008 : 2004 (on concrete) Heat aged at 80°C for 240 days (50 cycles)	No evidence of leakage after 24 hours exposure to 100 mm head of water. No debonding, or if any not exceeding 75 mm in total or 50 mm on one side of the gap.	Pass

8.3 Service life

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.

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* 2023, Chapter 7.1.

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

9.1.4 Terraces to which the system is to be applied, must be designed in accordance with BS 8579 : 2020.

9.1.5 In areas of pedestrian access, appropriate precautions against slip, such as the installation of paviours, must be taken.

9.1.6 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.

9.1.7 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 Proteus Pro-Cold 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. Additional instructions and guidance are provided in Annex A.

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

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

9.2.6 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).

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

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

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

Table 5 Primer application rates

Primer	Application rate ($g \cdot m^{-2}$)
Proteus Pro-Cold Solvent Primer	150
Proteus Pro-Cold Primer WB	100 to 150(1)

(1) Primer diluted at a ratio of 1:1 with water.

9.2.10 When using an airless spray, the wind speed must be such that it does not interfere with the application or cause overspray. No attempt to spray should be made if the wind speed exceeds 6.7 $m \cdot s^{-1}$ (15 mph), unless precautions such as the use of wind barriers are taken.

9.2.11 The product is applied at the application rates given in Table 6.

Table 6 System build-ups and application rates

	System build-ups	
Layers	Proteus Pro-Cold[1]	Proteus Pro-Cold/ Proteus Pro-Cold Plus
Base coat	Proteus Pro-Cold at 1.50 $kg \cdot m^{-2}$ (1 $\ell \cdot m^{-2}$) minimum	Proteus Pro-Cold at 1.50 $kg \cdot m^{-2}$ (1 $\ell \cdot m^{-2}$) minimum
Reinforcement	Proteus Pro-Force	Proteus Pro-Force
Top coat	Proteus Pro-Cold at 1.80 $kg \cdot m^{-2}$ (1.2 $\ell \cdot m^{-2}$) minimum	Proteus Pro-Cold at 1.00 $kg \cdot m^{-2}$ (0.66 $\ell \cdot m^{-2}$) minimum
Protection coat	—	Proteus Pro-Cold Plus at 0.30 $kg \cdot m^{-2}$ (0.25 $\ell \cdot m^{-2}$)
Finished thickness (mm)	2.2[2]	1.9

(1) When the 5.9 $kg \cdot m^{-2}$ application rate is used, the top coat (3.9 $kg \cdot m^{-2}$) can be applied either in one coat or two coats.
(2) Finished thickness of the 5.9 $kg \cdot m^{-2}$ application rate is 3.5 mm.

9.2.13 The NHBC requires that Proteus Pro-Cold, once installed, is inspected in accordance with *NHBC Standards* 2023, 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.

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

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.

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

9.4.2 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.

9.4.3 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.

† 10.1.6 The BBA has undertaken to review the above measures on a regular basis through a surveillance process, to verify that the specifications and quality control operated by the manufacturer are being maintained.

11 Delivery and site handling

11.1 The Certificate holder stated that the products are delivered to site in packaging bearing Certificate holder's name, logo, product name, batch number and health and safety data.

11.2 The packaging of the product is given in Table 7.

Table 7 Packaging

Component/item	Package type	Size	Shelf life
Proteus Pro-Cold	metal cans	8.25 kg (5.5 ℓ), 19 kg (13 ℓ), 20 kg (13.5 ℓ) or 25 kg (17 ℓ)	12 months
Proteus Pro-Cold Plus	tins	9 kg (7.5 ℓ)	12 months
Proteus Pro-Cold Solvent Primer	metal cans	0.8 kg (0.8 ℓ), 4 kg (4 ℓ) and 5 kg (5 ℓ)	12 months
Proteus Pro-Cold Primer WB Components A and B	plastic cans	3 kg kit component A 1.5 kg (1.45 ℓ) component B 1.5 kg (1.40 ℓ) 16 kg kit component A 8 kg (7.7 ℓ) component B 8 kg (7.5 ℓ)	12 months
Proteus Pro-Force	rolls	20 m^2, 125 m^2 and 200 m^2	—

ANNEX A – SUPPLEMENTARY INFORMATION †

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

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

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

CLP Regulations

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

Additional information on installation

General

A.1 Installation should also be in accordance with the relevant clauses of Liquid Roofing and Waterproofing Association (LRWA) Note 7 – *Specifier Guidance for Flat Roof Falls*

A.2 Existing bituminous membranes may not require the application of primer. In such cases the advice of the Certificate holder's technical office should be sought, but such advice is outside of the scope of this Certificate.

A.3 Application can be by brush, roller or airless spray. Brush application is normally used for small roof areas and for embedding the reinforcement into the waterproofing.

A.4 The top coats is applied as soon as the previous layer has cured (once cured, pedestrian access is allowed). A maximum of seven days is permitted before the application of the second coat. If a second coat is not applied within the seven-day period, the membrane will need to be cleaned and the surface reactivated using Proteus Pro-Cold Solvent Primer (prior to the application of the second coat).

A.5 If Proteus Pro-Cold Plus is being applied as a protection coat, it is applied a maximum of 24 hours after the application of the top coat.

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

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*

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

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

BS EN ISO 527-1:2019 *Plastics*. *Determination of tensile properties - General principles*
BS EN ISO 527-4:2021 *Plastics*. Determination of tensile properties - Test conditions for isotropic and orthotropic fibre-reinforced plastic composites

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

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

EOTA TR004 *Determination of the resistance to wind loads of partially bonded roof waterproofing membranes*
EOTA TR006 *Determination of the resistance to dynamic indentation*
EOTA TR007 *Determination of the resistance to static indentation*
EOTA TR008 *Determination of the resistance to fatigue movement*

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