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## Agrément Certificate

22/5994

Product Sheet 1 Issue 2

### SIG ROOF WATERPROOFING SYSTEMS

### SIGNATURE ULTRA PROTECT 20 YEAR SYSTEM

This Agrément Certificate Product Sheet<sup>(1)</sup> relates to the Signature Ultra Protect 20 Year System, for use on new and existing flat and pitched roofs with limited access.

(1) Hereinafter referred to as 'Certificate'.

#### The assessment includes

##### Product factors:

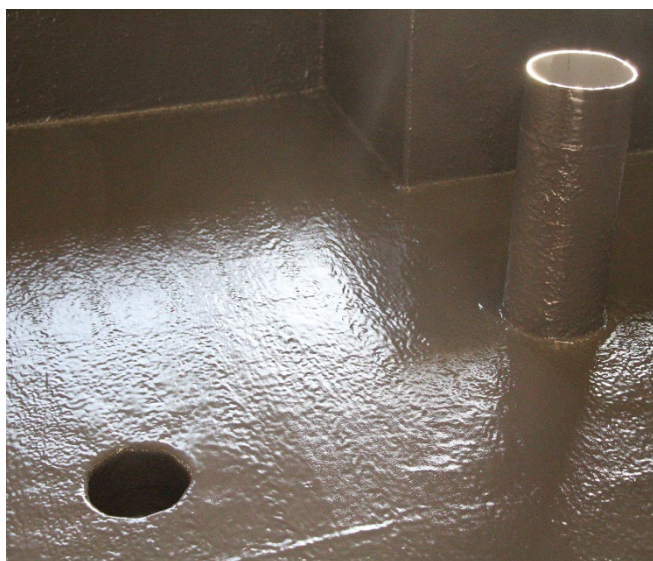
- compliance with Building Regulations
- compliance with additional regulatory or non-regulatory information where applicable
- evaluation against technical specifications
- assessment criteria and technical investigations
- uses and design considerations

##### Process factors:

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

##### Ongoing contractual Scheme elements†:

- regular assessment of production
- formal 3-yearly review



#### KEY FACTORS ASSESSED

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

The BBA has awarded this Certificate to the company named above for the system described herein. This system has been assessed by the BBA as being fit for its intended use provided it is installed, used and maintained as set out in this Certificate.

On behalf of the British Board of Agrément

Date of Second issue: 8 October 2025

Originally certified on 9 March 2022

Hardy Giesler  
Chief Executive Officer

*This BBA Agrément Certificate is issued under the BBA's Inspection Body accreditation to ISO/IEC 17020. Sections marked with † are not issued under accreditation.*

*The BBA is a UKAS accredited Inspection Body (No. 4345), Certification Body (No. 0113) and Testing Laboratory (No. 0357).*

*Readers MUST check that this is the latest issue of this Agrément Certificate by either referring to the BBA website or contacting the BBA directly.*

*The Certificate should be read in full as it may be misleading to read clauses in isolation.*

*Any photographs are for illustrative purposes only, do not constitute advice and should not be relied upon.*

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## SUMMARY OF ASSESSMENT AND COMPLIANCE

This section provides a summary of the assessment conclusions; readers should refer to the later sections of this Certificate for information about the assessments carried out.

### Compliance with Regulations

Having assessed the key factors, the opinion of the BBA is that Signature Ultra Protect 20 Year System, if installed, used and maintained in accordance with this Certificate, can satisfy or contribute to satisfying the relevant requirements of the following Building Regulations:



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

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



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

|                    |                |                                                                                                                                                                                                                            |
|--------------------|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Regulation:</b> | <b>8(1)(2)</b> | <b>Fitness and durability of materials and workmanship</b>                                                                                                                                                                 |
| <b>Comment:</b>    |                | The system is acceptable. See sections 8 and 9 of this Certificate.                                                                                                                                                        |
| <b>Regulation:</b> | <b>9</b>       | <b>Building standards – construction</b>                                                                                                                                                                                   |
| <b>Standard:</b>   | <b>2.8</b>     | Spread from neighbouring buildings                                                                                                                                                                                         |
| <b>Comment:</b>    |                | When applied to suitable substructures, the system may enable a roof to be unrestricted by this Standard, with reference to clause 2.8.1 <sup>(1)(2)</sup> . See section 2 of this Certificate.                            |
| <b>Standard:</b>   | <b>3.10</b>    | Precipitation                                                                                                                                                                                                              |
| <b>Comment:</b>    |                | The system, including joints, will enable a roof to satisfy this Standard, with reference to clauses 3.10.1 <sup>(1)(2)</sup> and 3.10.7 <sup>(1)(2)</sup> . See section 3 of this Certificate.                            |
| <b>Standard:</b>   | <b>7.1(a)</b>  | Statement of sustainability                                                                                                                                                                                                |
| <b>Comment:</b>    |                | The system can contribute to satisfying the relevant requirements of Regulation 9, Standards 1 to 6, and therefore will contribute to a construction meeting a bronze level of sustainability as defined in this Standard. |
| <b>Regulation:</b> | <b>12</b>      | <b>Building standards – conversion</b>                                                                                                                                                                                     |
| <b>Comment:</b>    |                | All comments given for the system under Regulation 9, Standards 1 to 6, also apply to this Regulation, with reference to clause 0.12.1 <sup>(1)(2)</sup> and Schedule 6 <sup>(1)(2)</sup>                                  |
|                    |                | (1) Technical Handbook (Domestic).                                                                                                                                                                                         |
|                    |                | (2) Technical Handbook (Non-Domestic).                                                                                                                                                                                     |



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

|                    |                        |                                                                                                                                      |
|--------------------|------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| <b>Regulation:</b> | <b>23(1)(a)(i)(ii)</b> | <b>Fitness of materials and workmanship</b>                                                                                          |
| <b>Comment:</b>    | <b>(iii)(iv)(b)(i)</b> | The system is acceptable. See sections 8 and 9 of this Certificate.                                                                  |
| <b>Regulation:</b> | <b>28(b)</b>           | <b>Resistance to moisture and weather</b>                                                                                            |
| <b>Comment:</b>    |                        | The system, including joints, will enable a roof to satisfy this Regulation. See section 3 of this Certificate.                      |
| <b>Regulation:</b> | <b>36(a)</b>           | <b>External fire spread</b>                                                                                                          |
| <b>Comment:</b>    |                        | The system is restricted by this Regulation. See section 2 of this Certificate.                                                      |
| <b>Regulation:</b> | <b>36(b)</b>           | <b>External fire spread</b>                                                                                                          |
| <b>Comment:</b>    |                        | On suitable substructures, the system may enable a roof to be unrestricted under this Regulation. See section 2 of this Certificate. |

### Additional Information

#### NHBC Standards 2025

In the opinion of the BBA, the Signature Ultra Protect 20 Year System, if installed, used and maintained in accordance with this Certificate, can satisfy or contribute to satisfying the relevant requirements in relation to NHBC Standards, Chapter 7.1 *Flat roofs, terraces and balconies*.

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

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

The opinion of the BBA does not amount to any endorsement or approval by NHBC and does not in any way guarantee that NHBC will approve such product / system as compliant with the NHBC Technical Requirements and Standards.

### Fulfilment of Requirements

The BBA has judged the Signature Ultra Protect 20 Year System to be satisfactory for use as a roof waterproofing on new and existing flat and pitched roofs with limited access.

### ASSESSMENT

#### Product description and intended use

The Certificate holder provided the following description for the system under assessment. The Signature Ultra Protect 20 Year System consists of:

- SIGnature Ultra Protect Light Grey — a single-part (moisture triggered) polyurethane for use as base coat
- SIGnature Ultra Protect Dark Grey — a single-part (moisture triggered) polyurethane
- SIGnature Ultra Protect Glass Fibre Mat — for use as system reinforcement
- SIGnature Ultra Protect Fast-Cure Multipurpose Primer — a one-part primer, for preparing exposed bitumen roofing membranes and porous asphalt, cementitious and timber substrates where required
- SIGnature Ultra Protect Fast-Drying PVC Primer — a one-part primer, for preparing PVC single-ply membranes, prior to application of the embedment coat
- SIGnature Ultra Protect Epoxy Metal Primer — a two-part primer for preparing metal substrates
- SIGnature Ultra Protect Fast-Cure Reactivation Primer — for preparing SIGnature Ultra Protect Light Grey left for more than five days and aged areas under repair, prior to the application of new coats.

The system has the nominal characteristics given in Table 1.

**Table 1 Physical characteristics of Signature Ultra Protect 20 Year System**

| Physical characteristics | Signature Ultra Protect Light Grey | Signature Ultra Protect Dark Grey | Signature Ultra Protect Fast-Cure Multipurpose Primer | Signature Ultra Protect Fast-Drying PVC Primer | Signature Ultra Protect Epoxy Metal Primer | Signature Ultra Protect Fast-Cure Reactivation Primer |
|--------------------------|------------------------------------|-----------------------------------|-------------------------------------------------------|------------------------------------------------|--------------------------------------------|-------------------------------------------------------|
| Colour                   | Light grey                         | Dark grey                         | Brown                                                 | Clear                                          | Beige                                      | Clear                                                 |
| Cure/drying time at 20°C | 6 to 12 hours                      | 6 to 12 hours                     | 60 to 120 minutes                                     | 20 to 60 minutes                               | 2 to 4 hours                               | 4 hours approximately                                 |

#### 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:

- low modulus mastic sealant
- lead-free cover flashings
- metal hard edges
- lightning conductor pads
- refurbishment outlets
- refurbishments vents
- GRP trims
- concrete paving supports
- free-standing edge protection
- Polyisocyanurate (PIR) and mineral wool insulation.

#### Applications

The system is intended for use on the following substrates:

- concrete
- asphalt
- bituminous roofing membranes (including mineral surfaced)
- steel
- PVC membranes
- existing polyurethane coatings
- plywood, in conjunction with a specified carrier membrane
- PIR insulation boards, in conjunction with a carrier membrane
- mineral wool (MW) insulation boards, in conjunction with a carrier membrane.

#### Definitions for products and applications inspected

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

## **Product assessment – key factors**

The system was assessed for the following key factors, and the outcome of the assessment 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 and classified to BS EN 13501-5 : 2016, the constructions given in Table 2 of this Certificate achieved B<sub>ROOF</sub>(t4).

*Table 2 External fire spread test*

| Construction                    | 1                                                                                                        | 2                          | 3          | 4                          | 5                          | 6          |
|---------------------------------|----------------------------------------------------------------------------------------------------------|----------------------------|------------|----------------------------|----------------------------|------------|
| Test orientation                | Flat                                                                                                     | Flat                       | Flat       | Sloped                     | Sloped                     | Sloped     |
| Substrate <sup>(1)</sup>        | An 18 mm thick orientated strand board (OSB)                                                             |                            |            |                            |                            |            |
| Primer <sup>(1)</sup>           | N/A                                                                                                      |                            |            |                            |                            |            |
| AVCL <sup>(1)</sup>             | N/A                                                                                                      | 1.5 mm thick self-adhesive |            | N/A                        | 0.4 mm thick self-adhesive |            |
| Insulation <sup>(1)</sup>       | N/A                                                                                                      | 60 mm PIR                  | 240 mm PIR | N/A                        | 60 mm PIR                  | 240 mm PIR |
| Primer <sup>(1)</sup>           | N/A                                                                                                      |                            |            |                            |                            |            |
| Carrier membrane <sup>(1)</sup> | 1.5 mm thick self-adhesive                                                                               |                            |            | 0.4 mm thick self-adhesive |                            |            |
| Basecoat <sup>(1)</sup>         | A layer of SiGnature Ultra Protect Light Grey applied at 1.0 l·m <sup>-2</sup> (1.5 kg·m <sup>-2</sup> ) |                            |            |                            |                            |            |
| Reinforcement <sup>(1)</sup>    | SiGnature Ultra Protect Glass Fibre Mat embedded                                                         |                            |            |                            |                            |            |
| Topcoat <sup>(1)</sup>          | SiGnature Ultra Protect Dark Grey applied at 1.0 l·m <sup>-2</sup> (1.5 kg·m <sup>-2</sup> )             |                            |            |                            |                            |            |

| Construction                    | 7                                                                                                        | 8                          | 9        | 10         | 11        |
|---------------------------------|----------------------------------------------------------------------------------------------------------|----------------------------|----------|------------|-----------|
| Test orientation                | Sloped                                                                                                   | Flat                       | Flat     | Flat       | Flat      |
| Substrate <sup>(1)</sup>        | An 18 mm thick orientated strand board (OSB)                                                             |                            |          |            |           |
| Primer <sup>(1)</sup>           | N/A                                                                                                      | Spray applied              |          |            |           |
| AVCL <sup>(1)</sup>             | N/A                                                                                                      | 0.6 mm thick self-adhesive |          |            |           |
| Insulation <sup>(1)</sup>       | N/A                                                                                                      | 25 mm PIR                  | 30 mm MW | 550 mm PIR | 565 mm MW |
| Primer <sup>(1)</sup>           | Spray applied                                                                                            |                            |          |            |           |
| Carrier membrane <sup>(1)</sup> | 0.6 mm thick self-adhesive                                                                               |                            |          |            |           |
| Basecoat                        | A layer of SiGnature Ultra Protect Light Grey applied at 1.0 l·m <sup>-2</sup> (1.5 kg·m <sup>-2</sup> ) |                            |          |            |           |
| Reinforcement                   | SiGnature Ultra Protect Glass Fibre Mat embedded                                                         |                            |          |            |           |
| Topcoat                         | SiGnature Ultra Protect Dark Grey applied at 1.0 l·m <sup>-2</sup> (1.5 kg·m <sup>-2</sup> )             |                            |          |            |           |

Flat roofs – the test is applicable to systems applied to roofs of pitches between 0 and 10°

Sloped roofs – the test is applicable to systems applied to roofs of pitches between 10 and 70°

PIR: polyisocyanurate insulation board

MW: mineral wool insulation

(1) Outside the scope of the Certificate.

2.1.2 On the basis of data assessed, the constructions listed in Table 2 of this Certificate will be unrestricted by the documents supporting the national Building Regulations with respect to proximity to a relevant boundary. Restrictions may apply at junctions with compartment walls.

2.1.3 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.

### 2.2 Reaction to fire

2.2.1 The Certificate holder has not declared a reaction to fire classification for the Signature Ultra Protect 20 Year System.

2.2.2 On the basis of data assessed, the system will be restricted in use under the documents supporting the national Building Regulations in some cases.

2.2.3 In England, the system, when used for roof 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. These constructions must also be included in calculations of unprotected area.

2.2.4 In Wales, the system, when used for roof pitches greater than 70°, excluding upstands, must not be used less than 1 m from a relevant boundary, or on buildings more than 18 m in height. These constructions must also be included in calculations of unprotected area.

2.2.5 In Northern Ireland, for systems 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 product is unrestricted in terms of 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 complete system, which must be established on a case by case basis.

### 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.

| <i>Table 3 Results of weathertightness tests</i>                                                                                                      |                                                                                                   |                |        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|----------------|--------|
| System assessed                                                                                                                                       | Assessment method                                                                                 | Requirement    | Result |
| Signature Ultra Protect 20 Year Roof System                                                                                                           | Watertightness to EOTA TR-003 : 2004                                                              | No leakage     | Pass   |
| Signature Ultra Protect 20 Year Roof System (free film, ie glass fibre mat, SIgnature Ultra Protect Light Grey and SIgnature Ultra Protect Dark Grey) | Water vapour diffusion/equivalent air layer thickness ( $s_d$ ) (m) to BS 1931 : 2000 25°C/75% RH | Value achieved | 8.0 m  |
| Signature Ultra Protect 20 Year Roof System                                                                                                           | Delamination strength to EOTA TR-004 : 2004                                                       | ≥50 kPa        | Pass   |
| - on concrete                                                                                                                                         |                                                                                                   | ≥50 kPa        | Pass   |
| - on asphalt                                                                                                                                          |                                                                                                   | ≥50 kPa        | Pass   |
| - on bituminous membrane                                                                                                                              |                                                                                                   | ≥50 kPa        | Pass   |
| - on plywood                                                                                                                                          |                                                                                                   | ≥50 kPa        | Pass   |
| - on PVC membrane                                                                                                                                     |                                                                                                   | ≥50 kPa        | Pass   |
| - on steel                                                                                                                                            |                                                                                                   | ≥50 kPa        | Pass   |
| - on carrier membrane on PIR insulation                                                                                                               |                                                                                                   | ≥50 kPa        | Pass   |
| - day joint                                                                                                                                           |                                                                                                   | ≥50 kPa        | Pass   |

3.1.2 On the basis of data assessed, the system will adequately resist the passage of moisture to the interior of a building and enable a roof to comply with 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 Results of resistance to mechanical damage tests**

| System assessed                                      | Assessment method                                                                             | Requirement                                                | Result                           |
|------------------------------------------------------|-----------------------------------------------------------------------------------------------|------------------------------------------------------------|----------------------------------|
| Signature Ultra Protect 20 Year Roof System          | Tensile strength to BS EN 527-1 : 2012 and BS EN 527-3 : 2018 (material non-directional)      | Value achieved                                             | 1486 N·(50 mm) <sup>-1P</sup>    |
| Signature Ultra Protect 20 Year Roof System          | Elongation properties to BS EN 527-1 : 2012 and BS EN 527-3 : 2018 (material non-directional) | Value achieved                                             | 2.8%                             |
| Signature Ultra Protect 20 Year Roof System on steel | Dynamic indentation to EOTA TR-006 : 2004 tested at 20°C tested at -20°C                      | Value achieved                                             | I <sub>4</sub><br>I <sub>4</sub> |
| on PIR insulation on carrier membrane                | tested at 20°C                                                                                |                                                            | I <sub>3</sub>                   |
| on MW insulation on carrier membrane                 | tested at 20°C                                                                                |                                                            | I <sub>3</sub>                   |
| Signature Ultra Protect 20 Year Roof System on steel | Static indentation to EOTA TR-007 : 2003 tested at 23°C tested at 80°C                        | Value achieved                                             | L <sub>4</sub><br>L <sub>4</sub> |
| PIR insulation on carrier membrane                   | tested at 23°C                                                                                |                                                            | L <sub>4</sub>                   |
| MW insulation on carrier membrane                    | tested at 23°C                                                                                |                                                            | L <sub>4</sub>                   |
| Signature Ultra Protect 20 Year Roof System          | Fatigue movement to EOTA TR-008 : 2004 for 1000 cycles                                        | Watertight and less than 75 mm delamination from substrate | Pass                             |

3.2.2 On the basis of data assessed, the system can accept, without damage, the limited foot traffic and light concentrated loads associated with installation and maintenance. Reasonable care must be taken to avoid puncture by sharp objects or concentrated loads.

3.2.3 The system is capable of accepting minor structural movement while remaining weathertight. Where the system is installed over carrier membranes on insulation, the resistance to wind uplift is dependent on the cohesive strength of the insulation.

## 4 Safety and accessibility in use

Not applicable.

## 5 Protection against noise

Not applicable.

## 6 Energy economy and heat retention

Not applicable.

## 7 Sustainable use of natural resources

Not applicable.

## 8 Durability

8.1 The potential mechanisms for degradation and the known performance characteristics of the materials in the system were assessed.

8.2 Specific test data were assessed as given in Table 5.

*Table 5 Results of durability tests*

| System assessed                                      | Assessment method                                                                                                                                            | Requirement                                                | Result                                                       |
|------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|--------------------------------------------------------------|
| Signature Ultra Protect 20 Year Roof System          | Tensile strength to BS EN ISO 527-1 : 2012 and BS EN ISO 527-3 : 2018 after UV ageing for 800 MJ·m <sup>-2</sup> after heat ageing at 70°C for 166 days      | Value achieved                                             | 1871 N·(50 mm) <sup>-1</sup><br>1542 N·(50 mm) <sup>-1</sup> |
| Signature Ultra Protect 20 Year Roof System          | Elongation properties to BS EN ISO 527-1 : 2012 and BS EN ISO 527-3 : 2018 after UV ageing for 800 MJ·m <sup>-2</sup> after heat ageing at 70°C for 166 days | Value achieved                                             | 2.8%<br>2.7%                                                 |
| Signature Ultra Protect 20 Year Roof System          | Delamination strength to EOTA TR-004 : 2004 after water exposure for 60°C for 60 days                                                                        |                                                            |                                                              |
| - on concrete                                        |                                                                                                                                                              | ≥50 kPa                                                    | Pass                                                         |
| - on asphalt                                         |                                                                                                                                                              | ≥50 kPa                                                    | Pass                                                         |
| - on bituminous membrane                             |                                                                                                                                                              | ≥50 kPa                                                    | Pass                                                         |
| - on plywood                                         |                                                                                                                                                              | ≥50 kPa                                                    | Pass                                                         |
| - on PVC membrane                                    |                                                                                                                                                              | ≥50 kPa                                                    | Pass                                                         |
| - on steel                                           |                                                                                                                                                              | ≥50 kPa                                                    | Pass                                                         |
| - on carrier membrane on PIR insulation              |                                                                                                                                                              | ≥50 kPa                                                    | Pass                                                         |
| - day joint                                          |                                                                                                                                                              | ≥50 kPa                                                    | Pass                                                         |
| Signature Ultra Protect 20 Year Roof System on steel | Dynamic indentation to EOTA TR-006 : 2004 after UV ageing for 800 MJ·m <sup>-2</sup> tested at -10°C after heat ageing at 70°C for 166 days tested at -30°C  | Value achieved                                             | I <sub>4</sub><br>I <sub>4</sub>                             |
| Signature Ultra Protect 20 Year Roof System          | Static indentation to EOTA TR-007 : 2003 after water exposure at 60°C for 50 days                                                                            | Value achieved                                             |                                                              |
| - on steel                                           | tested at 23°C<br>tested at 80°C                                                                                                                             |                                                            | L <sub>4</sub><br>L <sub>4</sub>                             |
| Signature Ultra Protect 20 Year Roof System          | Fatigue movement to EOTA TR-008 : 2004 for 50 cycles after heat ageing at 70°C for 200 days                                                                  | Watertight and less than 75 mm delamination from substrate | Pass                                                         |

### 8.3 Service life

Under normal service conditions, the system will provide a durable waterproof covering with a service life of at least 20 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 by the BBA, and the following requirements apply in order to satisfy the performance specified 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* 2025, Chapter 7.1.

9.1.3 For design purposes or 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 Insulation materials used in conjunction with the membranes must be in accordance with the manufacturer'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 scope 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 must be carried out in accordance with this Certificate and the Certificate holder's instructions.

9.2.3 All of the system components must be applied when the air and substrate temperatures are greater than 5°C. Special precautions may be necessary when temperatures exceed 30°C and advice must be obtained from the Certificate holder, but such advice is outside the scope of this Certificate

9.2.4 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).

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

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

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

9.2.8 All points of potential weakness such as splits, cracks, joints and crazed surfaces must be additionally reinforced in accordance with the Certificate holder's instructions prior to application of the system.

9.2.9 Substrates must be primed in accordance with the Certificate holder's instructions. The Certificate holder recommends peel-strength adhesion tests are carried out on-site, prior to application, in order to ensure sufficient adhesion is achieved and to determine priming requirements.

9.2.11 Primer coverage rates are given in Table 6.

*Table 6 Primer application rates*

| Primer                                                | Application rate (m <sup>2</sup> ·l <sup>-1</sup> ) |
|-------------------------------------------------------|-----------------------------------------------------|
| SIGNature Ultra Protect Fast-Cure Multipurpose Primer | 16 to 20                                            |
| SIGNature Ultra Protect Epoxy Metal Primer            | 10 to 20                                            |
| SIGNature Ultra Protect Fast-Drying PVC Primer        | 5 to 8                                              |
| SIGNature Ultra Protect Fast-Cure Reactivation Primer | 8 to 10                                             |

9.2.12 The primers can be applied by brush or roller. Brush application is normally used only for small roof areas and for embedding the fibre mat reinforcement into the waterproofing at areas of detailing.

9.2.13 Work must only commence on an area if it can be carried out to the full thickness for that particular coat, before weather changes occur. Where weather interrupts installation between layers, installation can proceed for up to five days later, provided the surface is clean, without the need for SIGNature Ultra Protect Fast-Cure Reactivation Primer.

9.2.14 For a smooth texture substrate, the system is applied at the coverage rates given in Table 7. The advice of the Certificate holder on coverage rates for intermediate, rough, porous and undulating substrates must be sought. The SIGNature Ultra Protect Glass Fibre Mat reinforcing is embedded in the SIGNature Ultra Protect Light Grey while the membrane is still wet, ensuring a minimum overlap of 50 mm of runs of the reinforcement.

*Table 7 System coverage rates and finished thickness*

| Layer (unit)                                                        | Full reinforcement system                      |
|---------------------------------------------------------------------|------------------------------------------------|
| SIGNature Ultra Protect Light Grey ( $\text{l}\cdot\text{m}^{-2}$ ) | 1.0                                            |
| SIGNature Ultra Protect Glass Fibre Mat                             | 225 $\text{g}\cdot\text{m}^{-2}$ reinforcement |
| SIGNature Ultra Protect Dark Grey ( $\text{l}\cdot\text{m}^{-2}$ )  | 1.0                                            |

9.2.15 The embedment coat is left to cure, prior to the application of the first coat of SIGNature Ultra Protect Dark Grey at the coverage rate given in Table 7 and left to cure.

9.2.16 Random tests must be carried out on the finished coated surface by cutting out small areas to measure finished cured thickness. Test areas must be repaired after the sample is taken.

9.2.17 The NHBC requires that the roof membranes, once installed, are inspected in accordance with *NHBC Standards 2025*, Chapter 7.1, Clause 7.1.11, and undergo an appropriate integrity test, where required. Any damage to the membrane must be repaired in accordance with section 9.4 of this Certificate and reinspected.

### 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, installation of the system must be carried out 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 repair of minor damage to the system can be achieved effectively by cleaning back to the unweathered material with clean water or diluted detergent solution, allowing to dry, reactivating using SIGNature Ultra Protect Fast-Cure Reactivation Primer if over five days old, and recoating the damaged area with the membrane at the recommended coverage rates given in section 9.2.

## 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 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 packaging of liquid components bears the product name, batch number, health and safety data and the BBA logo incorporating the number of this Certificate. Table 8 gives the packaging types and sizes

*Table 8 Packaging sizes and types*

| System component                                      | Packaging type | Size            | Storage temperature (°C) |
|-------------------------------------------------------|----------------|-----------------|--------------------------|
| SIGNature Ultra Protect Light Grey                    | Cans           | 15 litres       | 5 to 25                  |
| SIGNature Ultra Protect Dark Grey                     | Cans           | 15 litres       | 5 to 25                  |
| SIGNature Ultra Protect Fast-Drying PVC Primer        | Cans           | 5 and 25 litres | 5 to 25                  |
| SIGNature Ultra Protect Fast-Cure Multipurpose Primer | Cans           | 5 and 25 litres | 5 to 25                  |
| SIGNature Ultra Protect Epoxy Metal Primer            | Kits           | 4 litres        | 5 to 25                  |
| SIGNature Ultra Protect Fast-Cure Reactivation Primer | Cans           | 5 and 25 litres | 5 to 25                  |

11.2 The liquid components must be stored in a dry, shaded area and away from ignition sources.

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

### Additional information on installation

Installation of the system 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*.

## Bibliography

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

BS 8000-0 : 2014 + A1: 2024 *Workmanship on construction sites — Introduction and general principles*

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

BS EN ISO 527-1 : 2012 *Plastics — Determination of tensile properties — Part 1 : General properties*

BS EN ISO 527-3 : 2018 *Plastics — Determination of tensile properties — Part 3: Test conditions for films and sheets.*

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

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 tests*

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

EOTA Technical Report TR-003 : May 2004 *Determination of the watertightness*

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

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

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

EOTA Technical Report TR-008 : May 2004 *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.

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