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Agrément Certificate

24/7219

Product Sheet 1 Issue 1

## **SUREBOND BITUMINOUS ROOFING MEMBRANES**

## **SUREBOND MONO SYSTEM**

This Agrément Certificate Product Sheet<sup>(1)</sup> relates to the SureBond Mono System, a polyester reinforced, SBS modified bituminous membrane and air and vapour control layers for use as a fully or partially adhered, single layer waterproofing system on new and existing buildings. The system is for use on pitched, flat and protected roofs, and podia, with limited access or pedestrian access with suitable protection.

(1) Hereinafter referred to as '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 issue: 16 August 2024

Hardy Giesler
Chief Executive Officer

This BBA Agrément Certificate is issued under the BBA's Inspection Body accreditation to ISO/IEC 17020. Sections marked with  $\dot{\tau}$  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 the SureBond Mono 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)

Requirement:

B4(1) External fire spread

Comment:

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

Certificate.

Requirement: Comment: B4(2) External fire spread

On a suitable substructure, 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, including joints, will enable a roof to satisfy this Requirement. See section 3 of

this Certificate.

Requirement:

C2(c) Resistance to moisture

Comment: The system, including joints, can contribute to a roof to satisfying this Requirement. See

section 3 of this Certificate.

**Regulation:** Comment:

7(1) Materials and workmanship

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 use of the system satisfies this Regulation. See sections 8 and 9 of this Certificate.

**Regulation:** 9 **Building standards - construction**Standard: 2.8 Spread from neighbouring buildings

Comment: The system, when applied to a suitable substructure, may enable a roof to be unrestricted

The system, when applied to a suitable substitution, may enable a root to be unrestricted

by this Standard with reference to clause  $2.8.1^{(1)(2)}$ . See section 2 of this Certificate.

Standard: 3.10 Precipitation

Comment: The system, including joints, 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.

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.

Standard: 3.15 Condensation

Comment: The system will enable a roof to satisfy this Standard, with reference to clauses 3.15.1<sup>(1)</sup>,

 $3.15.3^{(1)}$ ,  $3.15.5^{(1)}$  and  $3.15.6^{(1)}$ . 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) Fitness of materials and workmanship

Comment: (iii)(b)(i) The system can satisfy this Regulation. See sections 8 and 9 of this Certificate.

Regulation: 28(b) Resistance to moisture and weather

Comment: The system can satisfy this Regulation. See section 3 of this Certificate.

Regulation: 29 Condensation

Comment: The system can contribute to a roof satisfying this Regulation. See section 3 of this

Certificate.

Regulation: 36(a) External fire spread

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

Certificate.

Regulation: 36(b) External fire spread

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

Regulation. See section 2 of this Certificate.

## **Additional Information**

### **NHBC Standards 2024**

In the opinion of the BBA, the SureBond Mono 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.

## **Fulfilment of Requirements**

The BBA has judged the SureBond Mono System to be satisfactory for use as described in this Certificate. The system has been assessed as a fully or partially adhered, single layer waterproofing system on new and existing buildings. The system is for use on pitched, flat and protected roofs, and podia, with limited access or pedestrian access with suitable protection.

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### **ASSESSMENT**

# Product description and intended use

The Certificate holder provided the following description for the system under assessment. The SureBond Mono System consists of:

- SureBond Mono Cap Sheet a styrene-butadiene-styrene (SBS) modified bitumen membrane, with a stabilised polyester reinforcement and mineral finish in various colours
- Euroroof PU Membrane Adhesive a single component, low foaming polyurethane adhesive
- SureBond TO Vapour Barrier a polyester reinforced, torch-on, SBS modified bitumen vapour barrier with an aluminium core, with a polyethylene film on the underside and a sanded upper surface
- SureBond SA Vapour Barrier a polyester reinforced, self-adhesive, SBS modified bitumen vapour barrier with an aluminium core, with a polyethylene film on the underside and mineral micro granules on the upper surface
- Euroroof Spray SA Primer a solvent-based primer

The system components have the nominal characteristics given in Table 1.

Table 1 Nominal characteristics			
Characteristic (unit)	SureBond Mono Cap Sheet	SureBond SA Vapour Barrier	SureBond TO Vapour Barrier
Thickness (mm)	4.2	2.0	3.0
Width (m)	1.0	1.0	1.0
Length (m)	8.0	15.0	10.0
Mass per unit area (kg·m <sup>-2</sup> )	5.3	2.3	3.7
Weight per roll (kg)	42.4	40	37

### **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:

- Monoscreed a curing screed
- V-Therm VIP a vacuum insulated panel
- Harmer AV a range of metal roof outlets
- Alumasc Multi-fix Dual Density Mineral Wool thermal insulation
- Alumasc Foamglas T4 Ready Board Warm Roof Insulation foamed glass thermal insulation board
- Skyline a polyester powder coated aluminium coping, soffit and fascia system
- Modulock a raised adjustable pedestal system for paving and decking
- Euroroof PU Insulation Adhesive a single component polyurethane adhesive
- Alumasc GTF PIR thermal insulation thermal insulation board.

#### **Applications**

The system is intended for use in fully or partially bonded flat or pitched roofs with limited access.

The system is intended primarily for use on polyisocyanurate (PIR) insulation and other types of insulation as approved by the Certificate holder.

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#### <u>Definitions for products and applications inspected</u>

The following terms have been defined for the purpose of the 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 that is not subjected to vehicular traffic
- 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 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 systems given in Table 2 of this Certificate achieved B<sub>ROOF</sub>(t4) for slopes below 10°.

Table 2 Tested systems				
Layer	System 1	System 2	System 3	System 4
Substrate	18 mm OSB (density 600 kg·m⁻³) <sup>(1)</sup>			
Air and vapour control	2 mm thick, SureBond SA Vapour Barrier			
later (AVCL)				
Adhesive	Euroroof PU Insulation Adhesive <sup>(1)</sup>			
Insulation	30 mm thick Alumasc GTF PIR insulation board <sup>(1)</sup>	100 mm thick Alumasc GTF PIR insulation board <sup>(1)</sup>	(50 + 100) mm thick Alumasc GTF PIR insulation board <sup>(1)</sup>	(100 + 100) mm thick Alumasc GTF PIR insulation board <sup>(1)</sup>
Adhesive	Euroroof PU Membrane Adhesive			
Cap Sheet	4.2 mm SureBond Mono Cap Sheet			

<sup>(1)</sup> These components are outside the scope of this Certificate.

- 2.1.2 On the basis of data assessed, the systems listed in Table 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.
- 2.1.3 A roof incorporating the system will be similarly unrestricted under the national Building Regulations in protected or inverted roof specifications, including an inorganic covering listed in the Annex of Commission Decision 2000/553/EC.

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- 2.1.4 In Wales and Northern Ireland, when used on flat roofs using a substrate designated in the supporting documents with the surface finishes listed below, a roof will be similarly unrestricted:
- bitumen-bedded stone chippings covering the whole surface to a depth of not less than 12.5 mm
- bitumen-bedded tiles of a non-combustible material
- sand and cement screed
- macadam.
- 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.
- 2.2 Reaction to fire
- 2.2.1 The Certificate holder has not declared a reaction to fire classification for the system to BS EN 13501-1: 2018.
- 2.2.2 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 in pitches greater than 70°, excluding upstands, must not be used less than 1 m from a relevant boundary, or 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 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. Restrictions apply on assembly and recreation buildings. These constructions must also be included in calculations of unprotected area.
- 2.2.5 In Northern Ireland, for systems used on walls or on roofs with 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 system 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.

## 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 res	ults		
Product assessed	Assessment method	Requirement	Result
			(Mean)
SureBond SA Vapour Barrier	Resistance to Peel from Support	≥25 N·(50 mm) <sup>-1</sup>	Pass
SureBond TO Vapour Barrier	(concrete) to MOAT 64		Pass
SureBond SA Vapour Barrier	Water vapour diffusion -	Value achieved	21165 m
SureBond TO Vapour Barrier	equivalent air layer thickness		1789 m
	BS EN 1931 : 2000		
Mono Cap Sheet	Shear resistance of joints to	≥ 500 N·(50mm) <sup>-1</sup>	Pass
	NEN EN 12317-1 : 1999		
Built up system:	Resistance to wind uplift to	Value achieved	5.5 kPa
plywood,	MOAT 64: 2001		
SA spray primer,			
SA AVCL,			
<b>Euroroof PU Insulation</b>			
Adhesive,			
Alumasc GTF PIR Insulation,			
Euroroof PU Membrane			
Adhesive,			
SureBond Mono Cap Sheet			
SureBond SA AVCL:	Wind uplift to	Value achieved	4 kPa
Plywood, SA spray primer,	MOAT 64: 2001		
SA AVCL			

- 3.1.2 The watertightness of the system was assessed using test data from a representative related product.
- 3.1.3 On the basis of data assessed, the system, including joints, when completely sealed and consolidated, will adequately resist the passage of moisture to the inside of a building and so satisfy the requirements of the national Building Regulations.
- 3.1.4 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.
- 3.2 Resistance to mechanical damage
- 3.2.1 Results of resistance to mechanical damage tests are given in Table 4.

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Table 4 Mechanical damage re	esults		
Product assessed	Assessment method	Requirement	Result
SureBond Mono Cap Sheet	Tensile strength to NEN EN 12311-1: 1999	Value achieved	
	Longitudinal direction		1075 N·(50mm) <sup>-1</sup>
	Transverse direction		950 N·(50mm) <sup>-1</sup>
SureBond SA Vapour Barrier	Longitudinal direction		305 N·(50 mm) <sup>-1</sup>
	Transverse direction		195 N·(50 mm) <sup>−1</sup>
SureBond TO Vapour Barrier	Longitudinal direction		320 N·(50 mm) <sup>-1</sup>
	Transverse direction		195 N·(50 mm) <sup>-1</sup>
SureBond Mono Cap Sheet	Elongation to NEN EN 12311-1: 1999	Value achieved	
	Longitudinal direction		43%
	Transverse direction		45%
SureBond SA Vapour Barrier	Longitudinal direction		3 %
	Transverse direction		30 %
SureBond TO Vapour Barrier	Longitudinal direction		3 %
·	Transverse direction		30 %
SureBond Mono Cap Sheet	Dynamic indentation to EOTA TR-006 : 2004	Value achieved	
- on aluminium			$I_4$
- on expanded polystyrene			l <sub>3</sub>
(EPS) insulation			
SureBond Mono Cap Sheet	Static indentation to EN 12730 : 2015	Value achieved	
- on concrete			20 kg
- on EPS insulation			20 kg
SureBond Mono Cap Sheet	Resistance to tearing (nail shank) to	≥ 150 N	
	NEN 12310-1 : 1999		
	Longitudinal direction		Pass
	Transverse direction		Pass
SureBond SA Vapour Barrier	Longitudinal direction		Pass
	Transverse direction		Pass
SureBond TO Vapour Barrier	Longitudinal direction		Pass
·	Transverse direction		Pass
SureBond Mono Cap Sheet	Low temperature flexibility	≤ -15°C	Pass
SureBond SA Vapour Barrier	to EN 1109 : 2013		Pass
SureBond TO Vapour Barrier			Pass

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

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

# 4 Safety and accessibility in use

Not applicable.

# 5 Protection against noise

Not applicable.

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## 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 Durability tests			
Product assessed	Assessment method	Requirement	Result
SureBond Mono Cap Sheet	Shear resistance of joints to	≥ 500 N·(50 mm) <sup>-1</sup>	
	NEN EN 12317-1 : 1999		
	Control		Pass
	After 7 days water immersion at 60°C		Pass
SureBond Mono Cap Sheet	Peel resistance of joints to	≥ 100 N·(50 mm) <sup>-1</sup>	
	NEN EN 12316-1 : 1999		
	Control		Pass
	After 7 days water immersion at 60°C		Pass
SureBond Mono Cap Sheet	Low temperature flexibility to	≤ 0°C and a maximum	Pass
SureBond SA Vapour Barrier	EN 1109-: 2013	deviation of 15 °C to the initial	Pass
	Heat aged for 200 days at 70°C	flexibility at low temperature	
SureBond Mono Cap Sheet	Heat resistance to EN 1110: 2010		
	Control	≥ 100°C	Pass
	Heat aged for 200 days at 70°C	≥ 90°C	Pass
SureBond Mono Cap Sheet	Resistance to slippage at 45 degrees to	< 2mm	Pass
Membrane	MOAT 64 : 2001		
SureBond SA Vapour Barrier	Resistance to Peel from Support (concrete) to	Aged samples should be	Pass
	MOAT 64	within 50% of the control and	
		≥25 N·(50 mm) <sup>-1</sup>	
	Heat aged 28 days at 80°C		

### 8.3 Service life

- 8.3.1 Under normal service conditions, the system will have a life of at least 25 years, provided it is designed, installed and maintained in accordance with this Certificate and the Certificate holder's instructions.
- 8.3.2 Localised loss of the mineral surfacing may occur, after some years, in areas where complex detailing of the roof design is incorporated.

# **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.

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- 9.1.2 Decks to which the system is to be applied must comply with the relevant requirements of BS 6229 : 2018, BS 8217 : 2005 and, where appropriate, *NHBC Standards* 2024, Chapter 7.1.
- 9.1.3 For design purposes of flat roofs, twice the minimum finished fall must be assumed, unless a detailed structural analysis of the roof is available, including overall and local deflection, and direction of falls.
- 9.1.4 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.
- 9.1.5 Bulk material must not be stored on one area of the roof prior to installation, to ensure that localised overloading does not occur.
- 9.1.6 Imposed loads, dead loading 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.
- 9.1.7 The substructure must satisfy the requirements of the relevant clauses of BS 8217 : 2005, and one of the surface finishes described in clause 6.12 of the Code of Practice must be used.
- 9.1.8 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.
- 9.1.9 The ballast on protected roofs must be of a type that will not be removed or become delocalised owing to wind scour experienced on the roof.
- 9.1.10 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 <u>Installation</u>

- 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, and the relevant clauses of BS 8000-0 : 2014, BS 8000-4 : 1989 and BS 8217 : 2005.
- 9.2.3 Deck surfaces must be sound, dry and clean, and free from sharp projections such as nail heads and concrete nibs.
- 9.2.4 The system is laid in conditions normal to roofing work and must not be laid in rain, snow or heavy fog. If the temperature is below 5°C, suitable precautions must be taken against the formation of condensation on the substrate.
- 9.2.5 At falls in excess of 5° (1:11), precautions against slippage, and requirements for mechanical fixing as required by BS 8217 : 2005, must be observed.
- 9.2.6 The SureBond SA Vapour Barrier is installed with 75 mm side and 150mm end laps, by removing the release film and firmly pressure rolling the surface to achieve a continuous bond across the full width of the membrane. Ensure that the membrane is accurately aligned, including overlaps, before removing the release film, and that it does not move as the film is removed.
- 9.2.7 The main field sheet should be pressure rolled with a weighted roller to ensure full contact of the membranes; the addition of hot air may be required to achieve full adhesion in colder conditions.

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- 9.2.8 The side laps (75mm) and head laps (150mm) must be hot air welded and pressure rolled with a long or medium handled 15kg roller. All laps must have a visible bleed of bitumen.
- 9.2.9 The SureBond TO Vapour Barrier is installed with 100 mm side and 150mm end laps by melting the lower surface by torching and pressing the product down. Care must be taken not to overheat the coating.
- 9.2.10 The SureBond Mono Cap Sheet must always be installed with end laps staggered by approximately a quarter of its length from the previous sheet and in such a manner that no counter-seams are made in the direction of outlets.
- 9.2.11 Corners of membrane which will be laid under the next sheet must be cut at a 45° angle (100 x 100 mm).
- 9.2.12 The joints, both side and head, must be overlapped by 120 and 150 mm respectively.
- 9.2.13 For fully bonded applications, bonding is achieved by melting the lower surface by torching and pressing the membrane down. Care must be taken not to overheat the coating.
- 9.2.14 For adhered applications, SureBond Mono Cap Sheet must be applied using Euroroof PU Membrane Adhesive at the coverage rate given in Table 6. Laps may be hot air welded or torched and must be pressure rolled with a long handled 15 kg roller from which a bead of compound must flow.

Table 6 Application rates of Euroroof PU Membrane adhesive		
Coverage Rate Coverage per 6 kg tin		
Normal	40 – 60 m <sup>2</sup>	
Roof Perimeters	30 – 40 m <sup>2</sup>	

- 9.2.15 Euroroof PU Membrane Adhesive must be applied in 10 mm continuous parallel beads at a rate of 4 beads per metre, at 250 mm centres. The adhesive must not be applied to wet roofs and must be limited to an area that can be covered within 15 minutes of application.
- 9.2.16 The vertical detail membrane sheet must be applied, ensuring that it is fully bonded to the PIR insulation board and overlapped onto the horizontal area by at least 100 mm.
- 9.2.17 The height of the vertical details must extend a minimum of 150 mm above the finished surface.
- 9.2.18 Euroroof PU Membrane Adhesive must not be used at temperatures below 5°C.
- 9.2.19 The NHBC requires that the system, once installed, is inspected in accordance with *NHBC Standards* 2024, Chapter 7.1, 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 the system's performance.

### 9.3 Workmanship

Practicability of installation was assessed on the basis of the Certificate holder's information and BS 8217: 2005. 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 meet the performance assessed in this Certificate:
- 9.4.2.1 The system must be the subject of six-monthly inspections and maintenance in accordance with the recommendations in BS 6229 : 2018, Chapter 7, and the manufacturer's own maintenance requirements, where relevant, to ensure continued satisfactory performance.

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9.4.2.2 In the event of damage to the waterproof layer, repairs can be carried out by cleaning the area around the damage and applying a patch of the membrane as described in the Certificate holder's instructions.

### 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 activities on a regular basis, through a surveillance process, to verify and re-assure that the specifications and quality control operated by the manufacturer are being maintained.

## 11 Delivery and site handling

- 11.1 The Certificate holder stated that the system is delivered to site on pallets shrink wrapped in polythene, bearing the product name and bands bearing the Certificate holder's and product names, roll dimensions, production date and batch number.
- 11.2 Delivery and site handing must be performed in accordance with the Certificate holder's instructions and this Certificate including:
- 11.2.1 Rolls must be stored upright on a clean, level surface and kept dry, away from excessive heat and under cover.

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## 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.

# <u>Construction (Design and Management) Regulations 2015</u> <u>Construction (Design and Management) Regulations (Northern Ireland) 2016</u>

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

# **CLP Regulations**

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

## **UKCA** marking

The Certificate holder has taken the responsibility of UKCA marking the product in accordance with Designated Standard EN 13707: 2004, EN 13969: 2004, EN 14695: 2010.

## **CE** marking

The Certificate holder has taken the responsibility of CE marking the system components in accordance with harmonised European Standard EN 13707 : 2013.

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## **Bibliography**

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

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

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NA + A2 : 18 to BS EN 1991-1-3 + A1 : 2015 UK National Annex to Eurocode 1 : Actions on structures — General actions — Snow loads

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### **Conditions**

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