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**Agrément Certificate**

**25/7354**

Product Sheet 1 Issue 1

## SURE-MELT BITUMINOUS WATERPROOFING SYSTEMS

### SURE-MELT ROOF WATERPROOFING SYSTEM

This Agrément Certificate Product Sheet<sup>(1)</sup> relates to the SURE-MELT Roof Waterproofing System, a hot-applied reinforced polymer-modified bitumen, applied in two layers, for use in blue roofs<sup>(2)</sup> on zero falls, inverted roofs ballasted with paving slabs on supports with limited or pedestrian access, inverted green roofs with limited access and roof gardens.

(1) Hereinafter referred to as 'Certificate'.

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

#### The assessment includes

##### Product factors:

- compliance with Building Regulations
- compliance with additional regulatory or 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 issue: 6 June 2025

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 the SURE-MELT Roof Waterproofing 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> B4(2) Comment:	<b>External fire spread</b> Roofs incorporating the system, when used with suitable surface protection, may enable a roof to be unrestricted by this Requirement. See section 2 of this Certificate.
<b>Requirement:</b> C2(b) Comment:	<b>Resistance to moisture</b> The system will enable a roof to satisfy this Requirement. See section 3 of this Certificate.
<b>Regulation:</b> 7(1) Comment:	<b>Materials and workmanship</b> The system is acceptable. See sections 8 and 9 of this Certificate.



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

<b>Regulation:</b> 8(1)(2) Comment:	<b>Fitness and durability of materials and workmanship</b> The use of the system satisfies this Regulation. See sections 8 and 9 of this Certificate.
<b>Regulation:</b> 9 Standard: 2.8 Comment:	<b>Building standards – construction</b> Spread from neighbouring buildings Roofs incorporating the system, when used with suitable surface protection, 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.
Standard: 3.10 Comment:	<b>Precipitation</b> The system 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.
Standard: 7.1(a) Comment:	<b>Statement of sustainability</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> 12 Comment:	<b>Building standards – conversion</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> 23(1)(a)(i)(ii) Comment:	<b>Fitness of materials and workmanship</b> The system is acceptable. See sections 8 and 9 of this Certificate.
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<b>Regulation:</b>	<b>28(b)</b>	<b>Resistance to moisture and weather</b>
Comment:		The system will enable a roof to satisfy this Regulation. See section 3 of this Certificate.
<b>Regulation:</b>	<b>36(b)</b>	<b>External fire spread</b>
Comment:		Roofs incorporating the system, when used with suitable surface protection, may enable a roof to be unrestricted by this Regulation. See section 2 of this Certificate.

## Additional Information

### NHBC Standards 2025

In the opinion of the BBA, the SURE-MELT Roof Waterproofing 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 SURE-MELT Roof Waterproofing System to be satisfactory for use as described in this Certificate. The system has been assessed for use on blue roofs<sup>(1)</sup> on zero falls, inverted roofs ballasted with paving slabs on supports with limited or pedestrian access, inverted green roofs with limited access and roof gardens.

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

## ASSESSMENT

### Product description and intended use

The Certificate holder provided the following description for the system under assessment. The SURE-MELT Roof Waterproofing System is applied in two layers, sandwiching a reinforcement layer, to provide a waterproofing layer with a nominal coating thickness of 6 mm. The system consists of:

- SURE-MELT compound — a polymer-modified bitumen, blended with other additives
- SURE-MELT Reinforcement Fleece — a non-woven polyester reinforcement fleece with a nominal weight of 50 g·m<sup>-2</sup> which is embedded between the two layers of SURE-MELT compound
- SURE-MELT CPS 2Kg — a glass-fibre-reinforced polymer-modified bitumen membrane with a nominal weight of 2 kg·m<sup>-2</sup>, for use as a protection membrane
- SURE-MELT CPS 4Kg — a polyester-reinforced polymer-modified bitumen membrane with a nominal weight of 4 kg·m<sup>-2</sup>, for use as a protection membrane.

#### Ancillary Items

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

- SURE-MELT Primer — a cold-applied, solvent-based bitumen solution primer for use on concrete and other porous substrates
- SURE-MELT CPM-5 — a torch-on, styrene-butadiene-styrene (SBS)-modified bitumen waterproofing membrane with root-resistant properties, for use in roof garden applications.

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:

- drainage membranes
- expansion joint systems
- extruded polystyrene (XPS) insulation
- expanded polystyrene (EPS) insulation
- mineral wool insulation
- other protection boards or membranes
- mastic asphalt screed for use as a protection layer, levelling coat or to add falls
- polypropylene geotextile root barriers
- retaining profiles
- paving and other ballast
- concrete repair products
- drainage outlet components
- attenuation crates
- water flow reducing layers (WFRL)
- cold-applied membranes
- upstand boards
- sedum blanket/plug plant growing mediums
- decking
- cellular glass insulation
- Vacuum Pack Insulation (VIP)
- mastic asphalt
- polyurethane (PU) adhesives
- drainage mats
- fibre particle boards.

### Applications

The system is intended for use as a waterproofing layer in blue roofs on zero falls, with the following specifications:

- blue roofs on zero falls
- inverted roofs ballasted with paving slabs on supports with limited or pedestrian access
- inverted green roofs with limited access
- roof gardens.

The system is intended for use on the following substrates:

- in-situ concrete
- pre-cast concrete
- concrete blocks
- lightweight structural concrete subject to the Certificate holder's recommendations
- timber (exterior grade plywood, OSB3, composite timber or sawn timber)
- metal (upstands and flat substrates)
- cement bonded particle boards
- reinforced bituminous membranes (including mineral surfaced).

### Definitions for products and applications inspected

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

- limited access roof — a roof subjected only to pedestrian traffic for maintenance of the roof covering, cleaning of gutters, etc
- zero fall roof — a roof having a finished fall which can vary between 0 and 1:80<sup>(1)</sup>
- flat roof — a roof having a minimum finished fall of 1:80<sup>(1)</sup>
- pitched roof — a roof having a fall in excess of 1:6
- green roof (extensive) — a roof with a shallow layer of growing medium planted with low-maintenance plants such as mosses, sedums, grasses and some wild flower species
- roof garden (intensive) — a roof with a substantial layer of growing medium with planting that can include shrubs and trees, generally accessible to pedestrians

- blue roofs – zero fall roofs which are designed to allow controlled attenuation of rain fall during heavy and storm events, as part of sustainable urban drainage systems (SUDS)
- invasive plant species – vegetation species with vigorous and/or invasive root systems likely to cause damage to components of the inverted roof insulation system and roof waterproofing.

(1) *NHBC Standards 2025* require a minimum fall of 1:60 for green roofs and roof gardens.

## 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 A roof incorporating the system will be unrestricted under the national Building Regulations with respect to a relevant boundary in the following circumstances:

- protected or inverted roof specifications that include an inorganic covering (eg gravel or paving slabs) listed in the Annex of Commission Decision 2000/553/EC
- a roof garden covered with a drainage layer of gravel 100 mm thick and a soil layer 300 mm thick
- irrigated green roofs and roof gardens.

2.1.1.1 Restrictions may apply at junctions with compartment walls.

2.1.2 In Wales and Northern Ireland, a roof comprising a concrete substrate and fully supported mastic asphalt has a notional B<sub>ROOF(t4)</sub> designation to BS EN 13501-5 : 2016.

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.

2.1.4 If allowed to dry, plants used may allow the spread of flame across the roof. This must be taken into consideration when selecting suitable plants for the roof. Appropriate planting, irrigation and/or protection must be applied to ensure the overall fire-rating of the roof is not compromised. Further guidance is available in the Department for Communities and Local Government publication, *Fire Performance of Green Roof and Walls*.

### 3 Hygiene, health and the environment

#### 3.1 Weathertightness

3.1.1 Results of weathertightness tests are given in Table 2.

*Table 2 Weathertightness*

System assessed	Assessment method	Requirement	Result
SURE-MELT Roof Waterproofing System	Water vapour transmission rate to BS 3177 : 1959	Value achieved	0.21 g·m <sup>-2</sup> ·day <sup>-1</sup>
SURE-MELT Roof Waterproofing System	Head of water to MOAT 27 : 5.1.4.2 : 1983	No leakage after 24 hours exposure to 60 kPa	Pass

3.1.2 On the basis of data assessed, the system will resist the passage of water into the interior of a building and so satisfy the relevant requirements of the national Building Regulations.

### 3.2 Resistance to mechanical damage

3.2.1 Results of resistance to mechanical damage tests are given in Table 3.

Product assessed	Assessment method	Requirement	Result
SURE-MELT CPS 2Kg	Tensile strength	Value achieved	
SURE-MELT Reinforcement Fleece	to BS EN 29073-3 : 1992 Longitudinal direction Transverse direction		15.4 N 15.1 N
SURE-MELT Roof Waterproofing System	Resistance to dynamic indentation to EOTA TR-006 : 2004	Value achieved	I <sub>4</sub>
SURE-MELT Roof Waterproofing System	Resistance to static indentation to EOTA TR-007 : 2004	Value achieved	L <sub>3</sub>
SURE-MELT Roof Waterproofing System	Fatigue movement to EOTA TR-008 : 2004 for 1000 cycles	Watertight and less than 75 mm delamination from the 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 and the effects of minor structural movement likely to occur under normal service conditions 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, suitable protection must be provided (for example, using concrete slabs supported on bearing pads).

3.2.4 Reasonable care must be taken to avoid puncture of the system by sharp objects or concentrated loads.

### 3.3 Resistance to root penetration

3.3.1 The resistance to root penetration of SURE-MELT CPM-5 was assessed using data for a representative related product.

3.3.2 On the basis of data assessed, the system, when used with SURE-MELT CPM-5 in roof garden, green roof and biodiverse roof applications, will resist penetration by plant roots and remain weathertight.

3.3.3 For green roofs in inverted roof specifications, when installed in accordance with this Certificate, the inverted roof insulation and WFRL will be adequately protected against root damage, subject to routine maintenance being carried out in accordance with this Certificate and as recommended by the Green Roof Organisation (GRO) *Code of Best Practice*.

3.3.4 For roof gardens in inverted specifications, when installed in accordance with this Certificate, the inverted roof insulation and WFRL must be protected from damage from invasive plant roots (for example, by using root-resistant planter boxes or tree pits lined with an effective root barrier).

## 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 5.

<i>Table 5 Durability</i>			
System assessed	Assessment method	Requirement	Result
SURE-MELT Compound	Flexibility at low temperature to CAN/CGSB 37.50-M89 : 1989	Value achieved	0°C
	Control		10°C
	Heat aged for 200 days at 70°C		10°C
SURE-MELT Roof Waterproofing System	Water exposure for 180 days at 60°C	Value achieved	10°C
	Resistance to static indentation to EOTA TR-007 : 2004		L <sub>3</sub>
SURE-MELT Roof Waterproofing System	Water exposure for 180 days at 60°C	Value achieved	L <sub>3</sub>
	Resistance to dynamic indentation to EOTA TR-006 : 2004		L <sub>4</sub>
SURE-MELT Roof Waterproofing System	Heat aged for 200 days at 70°C	Watertight and less than 75 mm delamination from the substrate	Pass
	Fatigue movement to EOTA TR-008 : 2004 for 50 cycles		Pass
SURE-MELT Compound	Heat aged for 200 days at 70°C	Value achieved	15 %
	Resilience (compound) to ASTM D 5329-04 - 2004		15 %
SURE-MELT Compound	Percentage recovery	Value achieved	22.5 mm
	Cone penetration to CAN/CGSB – 37.50 – M89		Pass
	Control at 50°C		Pass
SURE-MELT Compound	Re-melted 7 times 50 °C	No significant change	Pass
	Prolonged heating 50 °C		Pass
	Flow (compound) to CAN/CGSB – 37.50 – M89		1.8 mm
SURE-MELT Compound	Control	Value achieved	1.0 mm
	Re-melted 7 times 180 °C		1.0 mm
	Prolonged heating 180 °C		0.8 mm

### 8.3 Service life

Under normal service conditions, the system will have a life at least equivalent to the structure in which it is incorporated, 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 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 BS 8217 : 2005 and, where appropriate, NHBC Standards 2025, Chapter 7.1.

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

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 Imposed loads, dead loading and wind loads must be calculated by a suitably experienced and competent individual in accordance with the principles of BS EN 1991-1-1 : 2002, BS EN 1991-1-3 : 2003 and BS EN 1991-1-4 : 2005 and their UK National Annexes.

9.1.6 The ballast requirements for inverted specifications must be calculated by a suitably experienced and competent individual in accordance with the principles of BS EN 1991-1-4 : 2005 and its UK National Annex. The system must be ballasted with a minimum depth of 50 mm of aggregate. In areas of high wind exposure, the Certificate holder's advice must be sought, but such advice is outside the scope of this Certificate. Alternatively, concrete slabs on suitable supports can be used.

9.1.7 When the system is used in gravel-ballasted protected roof or inverted roof specifications, a suitable filter layer/water-reducing layer must be used between the ballast and the rest of the specification.

9.1.8 The ballast on protected roofs or growing medium used in roof gardens must not be of a type that will be removed or become delocalised owing to wind scour experienced on the roof.

9.1.9 It must be recognised that the type of plants used in roof gardens could significantly affect the expected wind loads experienced in service. Appropriate mitigation measures must be taken; the advice of the Certificate holder and / or the Green Roof Organisation (GRO) may be sought, but such advice is outside the scope of this Certificate.

9.1.10 For green roofs and roof gardens, invasive non-native alien plant species as defined by UK Government guidance must not be used.

9.1.11 For roof garden finishes, to protect the roof waterproofing and any system components above the waterproofing, such as insulation or the WFRL, invasive plant species must not be used; in particular, the following species must be excluded:

- invasive weeds including buddleia
- plants and grasses with aggressive rhizomes such as bamboo
- self-setting woody weeds such as sycamore and ash seedlings – must be removed at early germination stage
- other woody plants which spread aggressively including rhododendron.

9.1.12 The Green Roof Organisation (GRO) can provide guidance on species not included in clause 9.1.11 but such advice is outside the scope of this Certificate.

9.1.13 The drainage systems for inverted roofs, protected zero fall roofs, green roofs and roof gardens must be correctly designed, and the following points must be addressed:

- provision made for access for maintenance purposes
- for protected zero fall roofs, it is particularly important to identify the correct drainage points, to ensure that drainage is sufficient and effective
- dead loads for green roof and roof gardens can increase if the drains become partially or completely blocked causing waterlogging of the drainage layer.

9.1.14 The waterproofing membrane must be protected using one of the protection membranes immediately after installation.

9.1.15 Detailing must be carried out in accordance with the Certificate holder's instructions.

9.1.16 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 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 of the system must be in accordance with this Certificate, the Certificate holder's instructions, the relevant clauses of BS 6229 : 2018, BS 8000-0 : 2014, BS 8000-4 : 1989 and BS 8217 : 2005. A summary of guidance is provided in Annex A.

9.2.3 The system must be installed on a dry and frost-free substrate. After rain or snow, the substrate must be allowed to dry before installation can commence. The installer can aid drying by any suitable means approved by the Certificate holder, but such advice is outside the scope of this Certificate.

9.2.4 Cementitious substrates must be conditioned with one coat of SURE-MELT Primer and allowed to dry before application of the waterproofing membrane. All substrates must be free from contamination that may affect the adhesion of the waterproofing membrane. Acceptable adhesion must be confirmed by test.

9.2.5 To assess the suitability of a substrate to receive the membrane, bond tests must be carried out. If bonding problems occur, advice must be sought from the Certificate holder, but such advice is outside the scope of this Certificate.

9.2.6 Substrates to which the system is to be applied must be sound, dry, clean and free from sharp projections such as nail heads and concrete nibs.

9.2.7 Adhesion checks must be carried out to ensure that the system is compatible with the existing surfaces. The Certificate holder must be consulted for details of suitable test methods and requirements before use, but such advice is outside the scope of this Certificate.

9.2.8 Prior to the application of the waterproofing membrane, defects in the substrate such as cracks, irregularities and other areas of potential weakness must be repaired using a suitable repair mortar, and the substrate cleaned in accordance with the Certificate holder's instructions. Additional membrane may be used to fill minor depressions in the substrate.

9.2.9 SURE-MELT Compound must be heated in an insulated double jacketed boiler fitted with a stirrer and thermostatically controlled heater. The compound must not be subjected to direct flame during melting.

9.2.10 The application temperature range for the molten SURE-MELT Compound is 140 to 190°C. The temperature must not exceed 220°C.

9.2.11 Once molten, SURE-MELT Compound must be discharged from the heater into a suitable container and applied to the roof using a long-handled squeegee.

9.2.12 Construction joints and cracks must be reinforced with an additional strip of SURE-MELT Reinforcement Fleece.

9.2.13 At expansion joints, a proprietary joint-sealing system must be used. The Certificate holder must be consulted for details of suitable joint systems and for the detailing of the waterproofing membrane to the joint system, but such advice and products are outside the scope of this Certificate.

9.2.14 A first coat of SURE-MELT Compound is applied at a minimum thickness of 3 mm.

9.2.15 SURE-MELT Reinforcement Fleece is embedded into the first layer of the membrane whilst it is still warm and tacky. Adjacent sheets of SURE-MELT Reinforcement Fleece must be overlapped by a minimum of 75 mm.

9.2.16 A second layer of SURE-MELT Compound is then applied over the reinforced first layer at a minimum thickness of 3 mm, to provide a membrane with a minimum total thickness of 6 mm.

9.2.17 The system must then be immediately protected with the specified protection membrane prior to laying ballast, paving slabs or other specified surface finish in accordance with the Certificate holder's instructions.

9.2.18 In green roof and roof garden specifications, a layer of SURE-MELT CPM-5 membrane is applied fully bonded using traditional torching techniques and ensuring minimum 60 mm side laps and 100 mm end laps, prior to installing the specified finish.

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

9.2.20 The NHBC requires that the system, once installed, is inspected in accordance with *NHBC Standards 2025*, Chapter 7.1, Clause 7.1.11, including undergoing 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.

### 9.3 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, installation of the system must be carried out by installers who have been trained and approved by the Certificate holder.

### 9.4 Maintenance and repair

9.4.1 Ongoing satisfactory performance of the system in use requires that it is suitably maintained. The guidance provided by the Certificate holder was assessed by the BBA and found to be appropriate and adequate.

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

9.4.2.1 The system must be the subject of visual six-monthly inspections and maintenance in accordance with the recommendations in BS 6229 : 2018, Chapter 7, and the Certificate holder's own maintenance requirements. For green roof, roof garden and drainage systems, these six-monthly inspections must be carried out by a suitably experienced and competent individual with horticultural knowledge to ensure continued satisfactory performance. This must include an examination of the overall condition of the roof, ensuring that drain outlets and gutters are kept clear and unblocked and, for green roofs and roof gardens, the removal of any self-propagated plants and invasive plant species found. See clause 9.1.11.

9.4.2.2 Green roofs and roof gardens must be the subject of regular inspections, particularly in autumn after leaf fall and in spring, to ensure unwanted vegetation and other debris is cleared from the roof and drainage outlets. Guidance is available within the latest edition of *The GRO Green Roof Code of Best Practice*.

9.4.2.3 For green roofs, to protect the waterproofing and any system components above the waterproofing, such as insulation or the WFRL, invasive plant species (see sections 9.1.11 and 9.1.12 of this Certificate) must be eliminated through maintenance.

9.4.2.4 The control and removal of invasive species must be carried out by hand. Where this is not possible, any chemicals used must be checked for compatibility with the roof waterproofing layer and any system components above the waterproofing, such as insulation or the WFRL. The Certificate holder can advise on the suitability of a particular product, but such advice and products are outside the scope of this Certificate. Note, if using chemicals on a green roof or roof garden, rainwater outlets may need to be disconnected from the main drainage system to prevent contamination of the local water system and/or harm to flora and fauna.

9.4.2.5 The chemical fertiliser used on green roofs and roof gardens must be checked for compatibility with the roof waterproofing layer and any system components above the waterproofing, such as insulation or the WFRL. The Certificate holder can advise on the suitability of a particular product, but such advice and products are outside the scope of this Certificate.

9.4.2.6 If a leak occurs in the roof waterproof membrane, it must be repaired following removal of the gravel ballast, paving ballast, green roof or roof garden layer, the WFRL and the insulation boards. Correct reinstatement of these

layers must be carried out with particular care and the advice of the Certificate holder must be sought, but such advice is outside the scope of this Certificate.

9.4.2.7 Maintenance must include checks and operations to ensure that the system and drainage outlets are free from the build-up of silt and other debris, and that protection layers, eg walkways, are in good condition.

9.4.2.8 In the event of the system being contaminated by oil, grease or other chemicals, the advice of the Certificate holder must be sought, but such advice is outside the scope of this Certificate.

9.4.2.9 Any damage to the system must be repaired as soon as possible to ensure that the integrity of the waterproofing is maintained. The advice of the Certificate holder must be sought, but such advice is outside the scope of this Certificate.

9.4.2.10 Where maintenance or repair of any of the roof components above the waterproofing system is necessary, care must be taken to avoid damage to the membrane. If damage to the membrane occurs, then it must be repaired in accordance with the Certificate holder's instructions.

## 10 Manufacture

10.1 The production processes for the system components have been assessed, and provide assurance that the quality controls are satisfactory according to the following factors:

10.1.1 The manufacturer has provided documented information on the materials, processes, testing and control factors.

10.1.2 The quality control operated over batches of incoming materials has been assessed and deemed appropriate and adequate.

10.1.3 The quality control procedures and product testing to be undertaken have been assessed and deemed appropriate and adequate.

10.1.4 The process for management of non-conformities has been assessed and deemed appropriate and adequate.

10.1.5 An audit of each production location was undertaken, and it was confirmed that the production process was in accordance with the documented process, and that equipment has been properly tested and calibrated.

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

## 11 Delivery and site handling

11.1 The Certificate holder stated that the SURE-MELT Compound is delivered to site in nominal 20 kg blocks packaged in polypropylene-lined cardboard boxes. The blocks are delivered on shrink-wrapped pallets with a maximum of 45 blocks per pallet. Nominal roll sizes and weights are given in Table 6.

Product	Roll size (m <sup>2</sup> )
SURE-MELT CPS 2Kg	1 x 20
SURE-MELT CPS 4Kg	1 x 8
SURE-MELT Reinforcement Fleece	1 x 500
SURE-MELT CPM-5	1 x 8

11.2 SURE-MELT Primer is supplied in 5- and 25-litre drums.

11.3 Delivery and site handling must be performed in accordance with the Certificate holder's instructions and this Certificate, including:

11.3.1 The system components must be stored under cover, protected from physical damage and contamination. Rolls of membrane must be stored upright on a clean, level surface, away from heat and kept dry.

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 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).

### Additional information on installation

A.1 Additional guidance on maintenance for green roofs is available within the latest edition of the GRO *Green Roof code – Green Roof Code of Best Practice for the UK*.

A.2 For zero fall roofs, reference must be made to the appropriate clauses in the Liquid Roofing and Waterproofing Association (LRWA) *Note 7 – Specifier Guidance for Flat Roof Falls*.

A.3 Additional guidance for inverted roof specifications is given in BBA Information Bulletin No 4 *Inverted roofs – Drainage and U value corrections*.

A.4 Installation should also be in accordance with the relevant clauses of the Liquid Roofing and Waterproofing Association (LRWA) *Note 7 – Specifier Guidance for Flat Roof Falls*.

## Bibliography

ASTM D 5329-4 *Standard test methods for sealants and fillers, hot-applied, for joints and cracks in asphaltic and Portland cement concrete pavements*

BS 3177 : 1959 *Method for determining the permeability to water vapour of flexible sheet materials used for packaging*

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 building sites – Code of practice for waterproofing*

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

BS EN 1991-1-1 : 2002 *Eurocode 1 — Actions on structures — General actions — Densities, self-weight, imposed loads for buildings*

NA to BS EN 1991-1-1 : 2002 UK National Annex to *Eurocode 1 — Actions on structures — General actions — Densities, self-weight, imposed loads for buildings*

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

NA + A2 : 18 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*

BS EN 29073-3 : 1992 *Methods of test for nonwovens — Methods of test for nonwovens — Determination of tensile strength and elongation*

CAN/CGSB 37.50-M89 : 1989 *Hot-applied, rubberized asphalt for roofing and waterproofing*

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

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

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

MOAT 27 : 1983 *General directive for the assessment of roof waterproofing systems*

### 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
- 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
- and any matter arising out of or in connection with it or its subject matter (including non-contractual disputes or claims) is governed by and construed in accordance with the law of England and Wales.
- the courts of England and Wales shall have exclusive jurisdiction to settle any matter arising out of or in connection with this Certificate or its subject matter (including non-contractual disputes or claims).

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:

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- 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.