

## Holcim Solutions and Products EMEA BV

Ikaroslaan 75  
1930 Zaventem  
Belgium

Tel: +32 2 711 44 50

e-mail: info-emea-hbe@holcim.com

website: www.holcimelevate.com



**Agrément Certificate**

**89/2216**

Product Sheet 2 Issue 4

### ELEVATE ROOF WATERPROOFING MEMBRANES

#### ELEVATE RUBBERCOVER EPDM SYSTEM

This Agrément Certificate Product Sheet<sup>(1)</sup> relates to the Elevate RubberCover EPDM System, for use as a single layer roof waterproofing membrane in fully adhered systems on domestic flat roofs of up to 100 m<sup>2</sup> plan area 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 Fourth issue: 14 June 2024

Originally certified on 22 February 2016

Hardy Giesler  
Chief Executive Officer

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

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

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

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

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

#### British Board of Agrément

1<sup>st</sup> Floor, Building 3, Hatters Lane  
Croxley Park, Watford  
Herts WD18 8YG

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

## SUMMARY OF ASSESSMENT AND COMPLIANCE

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

### Compliance with Regulations

Having assessed the key factors, the opinion of the BBA is that the Elevate RubberCover EPDM 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(2)</b> | <b>External fire spread</b>   |
| Comment:            |              | 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>   |
| Comment:            |              | 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>  |
| Comment:            |              | 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>   |
| Comment:           |                | The use of the system satisfies this Regulation. See sections 8 and 9 of this Certificate.   |
| <b>Regulation:</b> | <b>9</b>       | <b>Building standards – construction</b>   |
| Standard:          | <b>2.8</b>     | Spread from neighbouring buildings   |
| Comment:           |                | The system, when applied to a suitable substructure, may enable a roof to be unrestricted by this Standard, with reference to clause 2.8.1 <sup>(1)</sup> . See section 2 of this Certificate.                             |
| Standard:          | <b>3.10</b>    | Precipitation  |
| Comment:           |                | The system, including joints, will enable a roof to satisfy this Standard, with reference to clauses 3.10.1 <sup>(1)</sup> and 3.10.7 <sup>(1)</sup> . See section 3 of this Certificate.                                  |
| Standard:          | <b>7.1(a)</b>  | 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. |
| <b>Regulation:</b> | <b>12</b>      | <b>Building standards – conversion</b>   |
| 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 <sup>(1)</sup> and Schedule 6 <sup>(1)</sup> .                                     |

(1) Technical Handbook (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>                         |
| Comment:           | <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(b)</b> | <b>External fire spread</b>  |
| <b>Comment:</b>    |              | On a suitable substructure, the system may enable a roof to be unrestricted by this Regulation. See section 2 of this Certificate. |

## Additional Information

### NHBC Standards 2024

In the opinion of the BBA, the Elevate RubberCover EPDM 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 Elevate RubberCover EPDM System to be satisfactory for use as described in this Certificate. The system has been assessed for use in fully adhered systems on domestic flat roofs of up to 100 m<sup>2</sup> plan area with limited access.

## ASSESSMENT

### Product description and intended use

The Certificate holder provided the following description for the system under assessment. The Elevate RubberCover EPDM System consists of a non-reinforced black synthetic ethylene-propylene-diene terpolymer (EPDM) membrane.

The system has the nominal characteristics given in Table 1.

*Table 1 Nominal characteristics*

| Characteristic (unit)                    | Value            |
|--|------------------|
| Thickness (mm)                           | 1.1, 1.5         |
| Roll width (m)                           | 3.05, 4.57, 6.10 |
| Length (m)                               | 7.62             |
| Mass per unit area (kg·m <sup>-2</sup> ) | 1.35, 1.85       |

## Ancillary Items

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

- RubberCover Bonding Adhesive BA 2012 — a roller-applied, solvent-based contact adhesive
- RubberCover Water-Based Bonding Adhesive — a water-based adhesive
- QuickSeam Cover Strip — a semi-cured EPDM strip, laminated to QuickSeam Tape, to cover and seal butt-jointed membranes
- QuickSeam Corner Flashing — a circular self-adhesive uncured EPDM flashing for use at corners
- QuickSeam SA Flashing — a self-adhesive cured EPDM strip for use as flashing for kerbs, outlets, in gutters and for repairs
- QuickSeam FormFlash 450 mm — a self-adhesive uncured EPDM strip for use as flashing for kerbs, outlets and repairs.

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:

- QuickPrime Plus Primer — for preparing the system to receive QuickSeam components
- QuickSeam Universal Pipe Flashing — a prefabricated pipe boot for flashing circular roof penetrations.

## 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
- 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 ENV 1187 : 2002, Test 4 and classified to EN 13501-5 : 2005, the constructions below achieved  $B_{ROOF}(t_4)$  for slopes below 10°:

- an 18 mm plywood substrate, a 250 µm polyethylene vapour control layer<sup>(2)</sup>, a mechanically fastened 100 mm glass-faced polyisocyanurate foam insulation board<sup>(2)</sup> and a layer of Elevate RubberCover 1.1 bonded with Elevate RubberCover Water-based Bonding Adhesive<sup>(1)</sup>
- an 18 mm plywood substrate, a 500 µm polyethylene vapour control layer<sup>(2)</sup>, a mechanically fastened 120 mm glass-faced polyisocyanurate foam insulation board<sup>(2)</sup> and a layer of Elevate RubberCover 1.1 bonded with Elevate RubberCover Water-based Bonding Adhesive<sup>(1)</sup>.

(1) Fire test report and classification report references WF 327780 and 328652 respectively, issued by Warrington Fire. A copy of the report is available from the Certificate holder on request.

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

2.1.2 On the basis of data assessed, the constructions described in section 2.1.1 will be unrestricted by the documents supporting the national Building Regulations with respect to proximity to a relevant boundary.

2.1.3 When used in conjunction with one of the inorganic coverings listed in the Annex of Commission Decision 2000/553/EC, the system will also be unrestricted with respect to proximity to a relevant boundary under the documents supporting the national Building Regulations.

2.1.4 The classification and permissible areas of use of other specifications must be established by reference to the requirements of the documents supporting the national Building Regulations.

### 3 Hygiene, health and the environment

Data were assessed for the following characteristics.

#### 3.1 Weathertightness

3.1.1 Results of weathertightness tests are given in Table 2.

| Product assessed      | Assessment method   | Requirement                  | Result |
|-----------------------|---|------------------------------|--------|
| QuickSeam Cover Strip | Water absorption to MOAT 66 : 2001                              | ≤ 2% by weight               | Pass   |
| QuickSeam SA Flashing | Peel resistance from galvanized steel support to MOAT 66 : 2001 | ≥ 25 N·(50 mm) <sup>-1</sup> | Pass   |
| QuickSeam Cover Strip | Peel resistance from galvanized steel support to MOAT 66 : 2001 | ≥ 25 N·(50 mm) <sup>-1</sup> | Pass   |

3.1.2 The watertightness, resistance wind uplift (including peel resistance from a concrete substrate) and resistance to sliding of the system were assessed using test data from a representative related system.

3.1.3 On the basis of data assessed, the system, when completely sealed and consolidated, will adequately resist the passage of moisture into the inside of a building and so satisfy the 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                 |
|------------------------|---|----------------|------------------------|
| Quick SeamCover Strip  | Tensile strength to EN 12311-2 : 2000           |                |                        |
|                        | longitudinal direction                          | Value achieved | 6.4 N·mm <sup>-2</sup> |
|                        | transverse direction                            | Value achieved | 6.6 N·mm <sup>-2</sup> |
| QuickSeam Cover Strip  | Elongation to EN 12311-2 : 2000                 | ≥ 300 %        |                        |
|                        | longitudinal direction                          |                | Pass                   |
|                        | transverse direction                            |                | Pass                   |
| Quick Seam Cover Strip | Tear strength to EN 12310-2 : 2000              | ≥ 40 N         |                        |
|                        | longitudinal direction                          |                | Pass                   |
|                        | transverse direction                            |                | Pass                   |
| QuickSeam Cover Strip  | Resistance to dynamic impact to EN 12691 : 2006 | Value achieved |                        |
|                        | Aluminium substrate                             |                | 1.5 m (Pass)           |
|                        | Expanded polystyrene (EPS) substrate            |                | 2.0 m (Pass)           |
| QuickSeam Cover Strip  | Resistance to static loading to EN 12730 : 2001 | ≥ 20 kg        |                        |
|                        | concrete substrate                              |                | Pass                   |
|                        | EPS substrate                                   |                | Pass                   |

3.2.2 The resistance to fatigue of the system was assessed using test data from a representative related system.

3.2.3 On the basis of data assessed, the system can accept 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.

3.2.4 Where traffic in excess of this is envisaged, such as for maintenance of lift equipment, a walkway should be provided (for example, using concrete slabs supported on bearing pads). The advice of the Certificate holder must be sought on the most appropriate method to be used with the amount of traffic involved, but such advice is outside the scope of this Certificate.

3.2.5 Constructions incorporating the system are capable of accepting minor structural movement while remaining weathertight.

#### **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 shown in Table 4.

**Table 4 Results of durability tests**

| Product assessed      | Assessment method                              | Requirement  | Result                 |                        |
|-----------------------|--|--|------------------------|------------------------|
| QuickSeam Cover Strip | Low temperature flexibility to EN 495-5 : 2013 | $\leq - 25^{\circ}\text{C}$                        | Unaged                 | Pass                   |
|                       | Heat aged for 24 weeks at 80°C                 |  | Pass                   |                        |
|                       | 2500 hours artificial weathering               |  | Pass                   |                        |
| QuickSeam Cover Strip | Dimensional stability to EN 1107-2 : 2001      | Value achieved                                     | Longitudinal direction | - 0.8 %                |
|                       | Transverse direction                           |  | - 0.5 %                |                        |
| QuickSeam Cover Strip | Tensile strength to EN 12311-2 : 2000          | No significant loss of properties following ageing | Longitudinal direction | Pass                   |
|                       | Heat aged at 70°C for 24 weeks                 |  | Transverse direction   | Pass                   |
| QuickSeam Cover Strip | Elongation to EN 12311-2 : 2000                | No significant loss of properties following ageing | Longitudinal direction | Pass                   |
|                       | Heat aged at 70°C for 24 weeks                 |  | Transverse direction   | Pass                   |
| QuickSeam Cover Strip | Tensile strength to EN 12311-2 : 2000          | Value achieved                                     | Longitudinal direction | 8.4 N·mm <sup>-1</sup> |
|                       | Heat aged at 80°C for 24 weeks                 |  | Transverse direction   | 7.8 N·mm <sup>-1</sup> |
| QuickSeam Cover Strip | Elongation to EN 12311-2 : 2000                | Value achieved                                     | Longitudinal direction | 290 %                  |
|                       | Heat aged at 80°C for 24 weeks                 |  | Transverse direction   | 300 %                  |
| QuickSeam Cover Strip | Tear strength to EN 12310-2 : 2000             | Value achieved                                     | Longitudinal direction | 83 N                   |
|                       | Heat aged at 80°C for 4 weeks, tested at 23°C  |  | Transverse direction   | 107 N                  |

### 8.3 Service life

Under normal service conditions, the system will have a life of at least 30 years, provided it is designed, installed and maintained in accordance with this Certificate and the Certificate holder's instructions.

## PROCESS ASSESSMENT

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

### 9 Design, installation, workmanship and maintenance

#### 9.1 Design

9.1.1 The design process was assessed 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 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 or 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 must be made for loading deflections to ensure that the free drainage of water is maintained.

9.1.5 Contact with bituminous, coal tar and oil-based products must be avoided as the system is incompatible with lower grades of bitumen. If contact with such products is likely, a separating layer must be interposed before installing the waterproof sheet. Where doubt arises, the advice of the Certificate holder should be sought, but such advice is outside the scope of this Certificate.

9.1.6 Imposed loads, dead loading and wind load specifications 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 When RubberCover is fully adhered to insulation boards, the resistance to wind uplift 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 the insulation material is selected. Faced polyurethane should be mechanically fixed to prevent bowing.

9.1.8 Insulation materials to be used in conjunction with the system must be in accordance with the Certificate holder's instructions and be:

- 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 carried out by installers trained and approved by the Certificate holder or the Certificate holder's authorized representatives in accordance with BS 6229: 2018, BS 8000-0 : 2014, BS 8000-4 : 1989, the Certificate holder's instructions and this Certificate.

9.2.3 Conditions on site should be those for normal roof waterproofing work. Deck surfaces must be dry, clean and free from sharp projections such as nail heads and concrete nibs.

9.2.4 When the system is to be laid over a rough substrate, an appropriate isolating material, cover board or insulation board must be installed first.

9.2.5 Installation must not be carried out during wet weather (eg rain, fog or snow), or when the temperature is below 0°C. Special precautions in accordance with the Certificate holder's instructions should be taken if the system is to be installed at temperatures below 5°C due to the risk of condensation contaminating the bonding adhesive.

9.2.6 The Water-Based Bonding Adhesive must not be applied if there is a possibility of freezing temperatures within 48 hours after application.

9.2.7 The membranes must be unrolled into position and allowed to acclimatise for 30 minutes prior to fixing and/or lap jointing. Care must be taken to avoid ripples or folds in the sheets.

9.2.8 All insulation boards must be attached using an appropriate adhesive or mechanical method according to the type of air and vapour control layer used in the system. The method of attachment must be adequate to provide resistance to wind uplift forces as defined in BS EN 1991-1-4 : 2005. When installed over glass fibre, mineral wool-based or polystyrene insulation, a suitable separation layer must be either mechanically fastened or bonded over the insulation prior to application of the waterproofing.

9.2.9 Alternatively, a layer of RubberCover Water-Based Bonding Adhesive must be applied to the approved substrate at an application rate of 1.47 to 2.45 m<sup>2</sup> · l<sup>-1</sup>. The membrane should be applied to the adhesive while wet and rolled to ensure a full bond and that no air has been trapped beneath the system.

9.2.10 Alternatively, a layer of RubberCover Bonding Adhesive BA-2012 must be roller- or spray-applied to both the substrate and the membrane at an approximate rate of 0.3 to 0.43 l · m<sup>-2</sup>. When the adhesive has become touch dry, the membrane should be applied to the substrate and compressed with a stiff brush to ensure a full bond and that no air has been trapped beneath the system.

9.2.11 The NHBC requires that the system, once installed, is inspected in accordance with *NHBC Standards 2024*, Chapter 7.1, Clause 7.1.11, including undergoing an appropriate integrity test, where required. Any damage to the system must be repaired in accordance with section 9.4 of this Certificate and reinspected, in order to maintain system performance.

### 9.3 Workmanship

The practicability of installation was assessed by the BBA on the basis of the Certificate holder's instructions and BS 8217 : 2005. To achieve the performance described in this Certificate, installation of the system must be carried out by installers trained and approved by the Certificate holder or the Certificate holder's authorised representatives.

### 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 six-monthly inspections and maintenance in accordance with the recommendations made in BS 6229 : 2018, Chapter 7 and Certificate holder's own maintenance requirements, where relevant, to ensure continued satisfactory performance.

9.4.2.2 In the event of damage, repairs must be carried out in accordance with the Certificate holder's instructions. Any damage can be repaired by cleaning around the affected area and applying a patch of QuickSeam Cover Strip in accordance with 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 product testing to be undertaken have been assessed and deemed appropriate and adequate.

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

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

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

## 11 **Delivery and site handling**

11.1 The Certificate holder stated that the system is delivered to site in rolls, each wrapped in a polythene sleeve bearing the system name, thickness, Certificate holder's name and the BBA logo incorporating the number of this Certificate.

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

11.2.1 The membrane is not subject to any particular storage conditions but the Elevate QuickSeam components must be stored in a clean, dry position and in temperatures between 15 and 25°C.

11.2.2 QuickSeam FormFlash, QuickSeam Cover Strip and QuickSeam Flashing cure gradually and must not be stored for more than 12 months.

11.2.3 Elevate RubberCover Bonding Adhesive BA-2012 and Elevate RubberCover Water-Based Bonding Adhesive must be stored between 15 and 25°C.

11.2.4 Elevate RubberCover Water-Based Bonding Adhesive must not be allowed to freeze.

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).

### CE marking

The Certificate holder has taken the responsibility of CE marking the system in accordance with harmonised European Standard EN 13956 : 2012.

### Management Systems Certification for production

The management system of the manufacturer has been assessed and registered as meeting the requirements of ISO 9001 : 2015 by Lloyds Register (Certificate 10516231).

## Bibliography

- BS 6229 : 2018 *Flat roofs with continuously supported flexible waterproof coverings — Code of practice*
- BS 8000-0 : 2014 *Workmanship on construction sites — Introduction and general principles*
- BS 8000-4 : 1989 *Workmanship on building sites — Code of practice for waterproofing*
- BS 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 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*
- EN 495-5 : 2013: *Flexible sheets for waterproofing – Determination of foldability at low temperature – Part 5: Plastic and rubber sheets for roof waterproofing*
- EN 1107-2 : 2001 *Flexible sheets for waterproofing – Determination of dimensional stability – Part 2 : Plastic and rubber sheets for roof waterproofing*
- EN 12310-2 : 2000 *Flexible sheets for waterproofing – Determination of resistance to tearing – Part 2: Plastic and rubber sheets for roof waterproofing*
- EN 12311-2 : 2000 *Flexible sheets for waterproofing - Determination of tensile properties – Part 2: Plastic and rubber sheets for roof waterproofing; English version of DIN EN 12311-2 (Foreign Standard) – The document specifies two methods for the determination of the tensile properties of plastic and rubber sheets for roof waterproofing*
- EN 12691: 2006 *Flexible sheets for waterproofing - Bitumen, plastic and rubber sheets for roof waterproofing - Determination of resistance to impact; German version EN 12691:2006 (FOREIGN STANDARD) – This European Standard specifies a test for puncture by impact on sheets for roof waterproofing*
- EN 12730: 2001 *Flexible sheets for waterproofing — Bitumen, plastic and rubber sheets for waterproofing — Determination of resistance to static loading*
- EN 13501-5 : 2005 + A1 : 2009 *Fire classification of construction products and building elements — Classification using data from external fire exposure to roofs test*
- EN 13501-5 : 2016 *Fire classification of construction products and building elements — Classification using data from external fire exposure to roofs test*
- EN 13956 : 2012 *Flexible sheets for waterproofing — Plastic and rubber sheets for roof waterproofing — Definitions and characteristics*
- ENV 1187 : 2002 *Test methods for external fire exposure to roofs*
- ISO 9001 : 2015 *Quality management systems — Requirements*
- ISO 14001 : 2015 *Environmental management systems — Requirements*
- MOAT 46: 1988 *Special Directives for the Assessment of Roof Waterproofing Systems with Non-reinforced Vulcanized EPDM*
- MOAT 66: 2001 *UEAtc Technical Guide for the Assessment of Non-Reinforced, Reinforced and/or Backed Roof Waterproofing Systems made of EPDM*

### 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.