Soprema UK Limited

Soprema House Freebournes Road Witham Essex CM8 3UN

Tel: 0330 058 0668 Fax: 0845 194 8728

e-mail: info@soprema.co.uk website: www.soprema.co.uk



Agrément Certificate 00/3750

Product Sheet 2

FLAG SINGLE-PLY TPO ROOF WATERPROOFING SYSTEMS

FLAGON EP/PV and EP/PV-F ROOF WATERPROOFING SYSTEMS

This Agrément Certificate Product Sheet⁽¹⁾ relates to Flagon EP/PV and EP/PV-F Roof Waterproofing Systems, glass-reinforced thermoplastic polyolefin (TPO) membranes for use as waterproofing on flat or pitched roofs with limited access in fully adhered, loose-laid and ballasted roof garden and green roof specifications.

(1) Hereinafter referred to as 'Certificate'.

CERTIFICATION INCLUDES:

- factors relating to compliance with Building Regulations where applicable
- factors relating to additional non-regulatory information where applicable
- independently verified technical specification
- assessment criteria and technical investigations
- design considerations
- installation guidance
- regular surveillance of production
- formal three-yearly review.

KEY FACTORS ASSESSED

Weathertightness — the systems, including joints will resist the passage of moisture to the interior of a building (see section 6).

Properties in relation to fire — the systems may enable a roof to be unrestricted under the national Building Regulations (see section 7).

Resistance to wind uplift — the systems will resist the effects of any likely wind suction acting on the roof (see section 8).

Resistance to mechanical damage — the systems will accept without damage the limited foot traffic and loads associated with installation and maintenance and minor structural movements occurring in service (see section 9).

Resistance to penetration of roots — the 1.5 mm membranes will adequately resist plant root penetration (see section 10).

Durability — under normal service conditions, the systems will provide a durable roof waterproofing with a service life in excess of 30 years (see section 12).

The BBA has awarded this Certificate to the company named above for the systems described herein. These systems have been assessed by the BBA as being fit for their intended use provided they are installed, used and maintained as set out in this Certificate.

On behalf of the British Board of Agrément

Date of Second issue: 2 September 2022

Originally certificated on 28 July 2015

Hardy Giesler Chief Executive Officer

The BBA is a UKAS accredited certification body – Number 113.

The schedule of the current scope of accreditation for product certification is available in pdf format via the UKAS link on the BBA website at www.bbacerts.co.uk
Readers MUST check the validity and latest issue number of this Agrément Certificate by either referring to the BBA website or contacting the BBA direct.
Any photographs are for illustrative purposes only, do not constitute advice and should not be relied upon.

British Board of Agrément

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

©2022

Regulations

In the opinion of the BBA, Flagon EP/PV and EP/PV-F Roof Waterproofing Systems, 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 presence of a UK map indicates that the subject is related to the Building Regulations in the region or regions of the UK depicted):



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

Requirement: B4(1) External fire spread

Comment: The systems are restricted by this Requirement in some circumstances. See

section 7.4 of this Certificate.

Requirement: B4(2) External fire spread

Comment: On suitable substructures, the use of the systems may enable a roof to be

unrestricted by this Requirement. See sections 7.1 to 7.4 of this Certificate.

Requirement: C2(b) Resistance to moisture

Comment: The systems, including joints, can enable a roof to satisfy this Requirement. See

section 6 of this Certificate.

Regulation: 7(1) Materials and workmanship)

Comment: The systems are acceptable. See section 12 and the *Installation* part of this

Certificate.

5923

The Building (Scotland) Regulations 2004 (as amended)

Regulation: 8(1)(2) Fitness and durability of materials and workmanship

Comment: The use of the systems satisfies the requirements of this Regulation. See

sections 11.1 and 12 and the Installation part of this Certificate.

Regulation: 9 Building standards applicable to construction

Standard: 2.6 Spread to neighbouring buildings

Comment: The systems are restricted under clause 2.6.4⁽¹⁾⁽²⁾ of this Standard in some

circumstances. See section 7.5 of this Certificate.

Standard: 2.8 Spread from neighbouring buildings

Comment: The systems, when applied to a suitable substructure, are classified as having

low vulnerability and may enable a roof to be unrestricted under this Standard, with reference to clause $2.8.1^{(1)(2)}$. See sections 7.1 to 7.3 of this Certificate.

Standard: 3.10 Precipitation

Comment: The systems, including joints, can enable a roof to satisfy the requirements of

this Standard, with reference to clauses $3.10.1^{(1)(2)}$ and $3.10.7^{(1)(2)}$. See section 6

of this Certificate.

Standard: 7.1(a) Statement of sustainability

Comment: The systems can contribute to meeting the relevant requirements of

Regulation 9, Standards 1 to 6 and therefore will contribute to a construction

meeting a bronze level of sustainability as defined in this Standard.

Regulation: 12 Building standards applicable to conversions

Comment: All comments given for the systems 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)(iii)(b)(i) Fitness of materials and workmanship

Comment: The systems are acceptable. See section 12 and the *Installation* part of this

Certificate.

Regulation: 28(b) Resistance to moisture and weather

Comment: The systems, including joints, can enable a roof to satisfy the requirements of

this Regulation. See section 6 of this Certificate.

Regulation: 36(a) External fire spread

Comment: The systems are restricted by this Requirement in some circumstances. See

section 7.5 of this Certificate.

Regulation: 36(b) External fire spread

Comment: On suitable substructures, the use of the systems may enable a roof to be

unrestricted under this Regulation. See sections 7.1 to 7.3 of this 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.

See sections: 1 Description (1.1) and 3 Delivery and site handling (3.3) of this Certificate.

Additional Information

NHBC Standards 2022

In the opinion of the BBA, Flagon EP/PV and EP/PV-F Roof Waterproofing Systems, 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*.

The NHBC Standards do not cover the use of the systems in the refurbishment of existing roofs.

CE marking

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

Technical Specification

1 Description

1.1 Flagon EP/PV and EP/PV-F Roof Waterproofing Systems consist of glass-reinforced TPO roofing membranes. Flagon EP/PV-F includes a polyester fleece-backing. The membranes are manufactured to the nominal characteristics given in Table 1.

Table 1 Nominal Characteristics				
Characteristic (unit)	Nominal value			
	Flagon EP/PV		Flagon EP/PV-F	
Thickness (mm)	1.2	1.5	1.2 ⁽¹⁾	1.5 ⁽¹⁾
Width (m)	2.1	2.1	2.1	2.1
Length (m)	25	20	20	20
Mass per unit area (kg·m⁻²)	1.15	1.40	1.35	1.60
Watertightness	pass	pass	pass	pass
Tensile strength				
EP/PV (N·mm ⁻²)	≥9.0	≥9.0	_	_
EP/PV-F (N per 50 mm)			≥550	≥650
Elongation at break (%)	≥550	≥550	≥350	≥350
Resistance to impact (mm)	≥450	≥800	≥450	≥800
Static loading (kg)	≥20	≥20	≥20	≥20
Tear resistance (N)	≥130	≥165	≥200	≥250
Peel resistance of joints (N per 50 mm)	≥200	≥200	≥200	≥200
Shear resistance of joints (N per 50 mm)	>325	>400	>325	>400
Foldability at low temperature (°C)	≤-40	≤-40	≤-40	≤-40
Colour				
top face	sand grey	sand grey	sand grey	sand grey
bottom face	black	black	sand grey	sand grey

⁽¹⁾ Excluding backing fleece.

- 1.2 Ancillary items for use with the systems and within the scope of the Certificate are:
- Flagon Corners preformed Flagon EP membrane internal and external corners
- Flagon Metal Sheet Flagon EP compound-coated material metal sections for use in forming perimeter details and such details
- Flexocol W a single-component, polyurethane adhesive for bonding membranes to the substrate
- Flexocol EP Adhesive a contact adhesive for use in detailing of the membranes.
- 1.3 The Certificate holder recommends the following ancillary items for use with the systems, but these materials have not been assessed by the BBA and are outside the scope of this Certificate:
- Vaporflag 0.3 and 0.4 mm thick, black polyethylene vapour control layers
- Flag Geotextile a 200 g⋅m⁻² non-woven polyester for use as a separation layer
- Flagon TPO Walkway a TPO membrane with anti-slip surface for use as a walkway for maintenance traffic
- Flag Butyl Tape for use in sealing vapour control layers
- Pyramidal Profile used to create architectural features in detailing of the membranes
- Wall Outlet/Round Wall Outlet TPO finishing element to detail at water drainage points through parapet walls
- Rain Water Outlet TPO finishing element to detail at water drainage points in the roof field
- scuppers, vent and pipe collars.

2 Manufacture

- 2.1 The membranes are manufactured by extruding and then laminating the reinforcement between sheets of TPO.
- 2.2 As part of the assessment and ongoing surveillance of product quality, the BBA:
- agreed with the manufacturer the quality control procedures and product testing to be undertaken
- assessed and agreed the quality control operated over batches of incoming materials
- monitored the production process and verified that it is in accordance with the documented process
- evaluated the process for management of nonconformities
- checked that equipment has been properly tested and calibrated

- undertaken to carry out 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.
- 2.3 The systems are manufactured by Soprema Srl, Via Industriale Dell'Isola, 1, 24040 Chignolo D'Isola (BG), Italy, tel: 00 39 035 0951011, fax: 00 39 035 494 0649, e-mail: info@soprema.it and website: www.soprema.it
- 2.4 The management system of Soprema Srlhas been assessed and registered as meeting the requirements of EN ISO 9001 : 2015 by SGS (Certificate FR18/81842815).

3 Delivery and site handling

- 3.1 The membranes are delivered to site in rolls wrapped in polythene on pallets. Labels bear the Certificate holder's name and address, product identification, dimensions, batch number and the BBA logo incorporating the number of this Certificate.
- 3.2 Rolls should be stored on their side, on a clean, level surface, and under cover.
- 3.3 The Certificate holder has taken the responsibility of classifying and labelling the systems components under *the CLP Regulation (EC) No 1272 / 2008 on the classification, labelling and packaging of substances and mixtures*. Users must refer to the relevant Safety Data Sheet(s).

Assessment and Technical Investigations

The following is a summary of the assessment and technical investigations carried out on Flagon EP/PV and EP/PV-F Roof Waterproofing Systems.

Design Considerations

4 General

4.1 Flagon EP/PV and EP/PV-F Roof Waterproofing Systems are satisfactory for use as:

Flagon EP/PV

- a loose-laid and ballasted roof waterproofing with limited access
- a waterproofing in inverted roof specifications on flat roofs with limited access
- green roofs and roof gardens (1.5 mm membranes only)

Flagon EP/PV-F

- an adhered waterproofing on flat or pitched roofs with limited access.
- 4.2 Decks to which the systems are to be applied must comply with the relevant requirements of BS 6229 : 2018, BS 8217 : 2005 and, where appropriate, *NHBC Standards* 2022, Chapter 7.1.
- 4.3 The following terms are defined for the purpose of this Certificate as:
- roof garden (intensive) a roof with a substantial layer of growing medium with planting that can include shrubs and trees, generally accessible to pedestrians
- 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.
- 4.4 Limited access roofs are defined for the purpose of this Certificate as those subjected only to pedestrian traffic for maintenance of the roof covering, cleaning of gutters, etc. Where traffic in excess of this is envisaged, additional protection to the membrane must be provided (see section 9).

- 4.5 Flat roofs are defined for the purpose of this Certificate as those having a minimum finished fall of 1:80⁽¹⁾. For design purposes, twice the minimum finished fall should be assumed, unless a detailed analysis of the roof is available, including overall and local deflection, direction of falls, etc.
- (1) NHBC Standards 2022 require a minimum fall of 1:60 for green roofs and roof gardens.
- 4.6 Pitched roofs are defined for the purpose of this Certificate as those having a fall greater than 1:6.
- 4.8 Imposed loads, dead loading and wind loads are 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.
- 4.9 Recommendations for the design of green roofs and roof garden specifications are available within the latest edition of *The GRO Green Roof Code Green Roof Code of Best Practice for the UK*.
- 4.10 The drainage systems for inverted roofs, green roofs or roof gardens must be correctly designed, and the following points should be addressed:
- provision made for access for maintenance purposes
- dead loads for green roof and roof gardens can increase if the drains become partially or completely blocked causing waterlogging of the drainage layer
- 4.11 Insulation systems and materials to be used in conjunction with the membranes 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 the scope of that Certificate.
- 4.12 Contact with bituminous and oil-based products must be avoided as the membrane is not compatible with lower grades of bitumen. If contact with such products is likely, a separating layer must be interposed before installing the waterproofing membrane. When doubt arises, the advice of the Certificate holder should be sought.
- 4.13 The NHBC requires that the waterproofing membranes, once installed, are inspected in accordance with *NHBC Standards* 2022, Chapter 7.1, Clause 7.1.12, and undergo an appropriate integrity test, where required. Any damage to the membrane is repaired in accordance with section 18 of this Certificate and reinspected.

5 Practicability of installation

Installation of the systems must be carried out only by installers trained and approved by the Certificate holder.

6 Weathertightness



The systems, including joints when completely sealed and consolidated, will adequately resist the passage of moisture to the interior of a building and enable a roof to comply with the requirements of the national Building Regulations.

7 Properties in relation to fire



7.1 A roof incorporating the systems will be unrestricted with respect to proximity from a boundary under the national Building Regulations in the following circumstances:

- when used in protected or inverted roof specifications including an inorganic covering 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 roof gardens and green roofs.
- 7.2 Flagon EP/PV-F membrane, when used without protection, has not been classified to BS EN 13501-5 : 2016, and is therefore restricted (unless assessed or tested, see section 7.3) as follows:
- In England, Wales and Northern Ireland, the distance from the relevant boundary must be at least 20 m;
- In Scotland, the distance from the relevant boundary must be at least 24 m.
- 7.3 The designation and permissible areas of use of other specifications should be confirmed by reference to the requirements of the documents supporting the national Building Regulations.



7.4 In England, Wales and Northern Ireland, the systems, when used in pitches of greater than 70°, should not be used on buildings that have a storey at least 18 m above ground level and which contain: one or more dwellings, an institution, a room for residential purposes (excluding any room in a hostel, hotel or boarding house), student accommodation, care homes, sheltered housing, hospitals or dormitories in boarding schools and additionally, in Northern Ireland, nursing homes and places of lawful detention.



7.5 In Scotland, the systems, when used in pitches of greater than 70°, excluding upstands, should not be used on buildings that have a storey more than 11 m above ground level.

7.6 If allowed to dry, plants used in a roof garden may allow flame spread across the roof. This should be taken into consideration when selecting suitable plants for the roof. Appropriate planting irrigation and/or protection should be applied to ensure the overall fire-rating of the roof is not compromised.

8 Resistance to wind uplift

- 8.1 When fully bonded, Flagon EP/PV-F will have sufficient adhesion to resist the effects of wind suction, elevated temperature and thermal shock conditions likely to occur in practice.
- 8.2 When the systems are bonded 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 should be taken into account when the insulation material is selected.
- 8.3 The ballast requirements for roof systems using Flagon EP/PV should be calculated by a suitably experienced and competent individual in accordance with the relevant parts of BS EN 1991-1-4: 2005 and its UK National Annex. When gravel ballast is used, the system should always be loaded with a minimum depth of 50 mm of aggregate. In areas of high-wind exposure, the Certificate holder's advice should be sought. Alternatively, concrete slabs on suitable supports can be used.

9 Resistance to mechanical damage

- 9.1 The systems can accept the limited foot traffic and light concentrated loads associated with installation and maintenance. Reasonable care should be taken to avoid puncture by sharp objects or concentrated loads. 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.
- 9.2 The system is capable of accepting minor structural movement while remaining weathertight.

10 Resistance to penetration of roots

Flagon EP/PR and EP/PR-F 1.5 membranes are resistant to root penetration and can be used in a roof waterproofing system for roof gardens and green roofs.

11 Maintenance



- 11.1 The systems should be the subject of six monthly inspections and maintenance in accordance with the recommendations in BS 6229 : 2018, Chapter 7, and the manufacturers own maintenance requirements, where relevant, to ensure continued satisfactory performance.
- 11.2 Where damage has occurred, it should be repaired in accordance with section 18 and the Certificate holder's instructions
- 11.3 For green roofs and roof gardens, guidance is available within the latest edition of The GRO Green Roof Code Green Roof Code of Best Practice for the UK.

12 Durability



Under normal service conditions, the systems will have a service life in excess of 30 years.

13 Reuse and recyclability

The products comprise thermoplastic polyolefin, glass and polyester, which can be recycled.

Installation

14 General

- 14.1 Installation of Flagon EP/PV and EP/PV-F Roof Waterproofing Systems must be carried out by trained and approved installers working in accordance with BS 6229 : 2018, BS 8000-0 : 2014, BS 8000-4 : 1989, the Single Ply Roofing Association (SPRA) *Single Ply : Design Guide,* the Certificate holder's instructions and this Certificate.
- 14.2 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. When used over a rough substrate, a suitable protection layer should be placed over the substrate.
- 14.3 In all cases, a vapour control layer should be used directly over the deck. When internal temperatures and humidity conditions will exceed 22°C/50% RH, special precautions should be taken and the Certificate holder should be consulted.
- 14.4 Installation should not be carried out during wet weather (eg rain, fog or snow) nor when the temperature is below 0°C.
- 14.5 All flashings should be formed in accordance with the Certificate holder's instructions.
- 14.6 Bulk ballast material should not be stored on one area of the roof prior to installation, to ensure that localised overloading does not occur.

15 Procedure (loose-laid and ballasted)

15.1 The membrane is unrolled onto the substrate, without ripples, on top of any protective or isolating layer and ensuring adequate overlaps for jointing (see section 17 of this Certificate).

- 15.2 A suitable protection layer should be laid over the membrane prior to application of the ballast.
- 15.3 The membrane should be covered by at least a 50 mm depth of well-rounded gravel. In areas of high-wind exposure, paving slabs set on a suitable support may be considered.
- 15.4 Normal account should be taken in the design of the deck of the extra dead loading owing to the weight of the ballast.
- 15.5 Details of perimeter upstands should be mechanically fastened.

16 Procedure (fully adhered system)

- 16.1 Insulation boards should be fixed to the substrate in such a way as not to impair the performance of the waterproofing membrane.
- 16.2 The EP/PV-F membrane is unrolled onto the substrate, without ripples, with an 80 mm overlap.
- 16.3 The membrane is folded back, and Flexocol TPO adhesive applied to the membrane and substrate at a rate of 0.25 to $0.4 \text{ kg} \cdot \text{m}^{-2}$.
- 16.4 Flexocol TPO adhesive is moisture curing, and therefore, in dry conditions, a fine spray of water should be applied to the adhesive before the installation of the membrane, to aid curing.
- 16.5 Jointing is carried out in accordance with the Certificate holder's instructions (see section 17 of this Certificate).

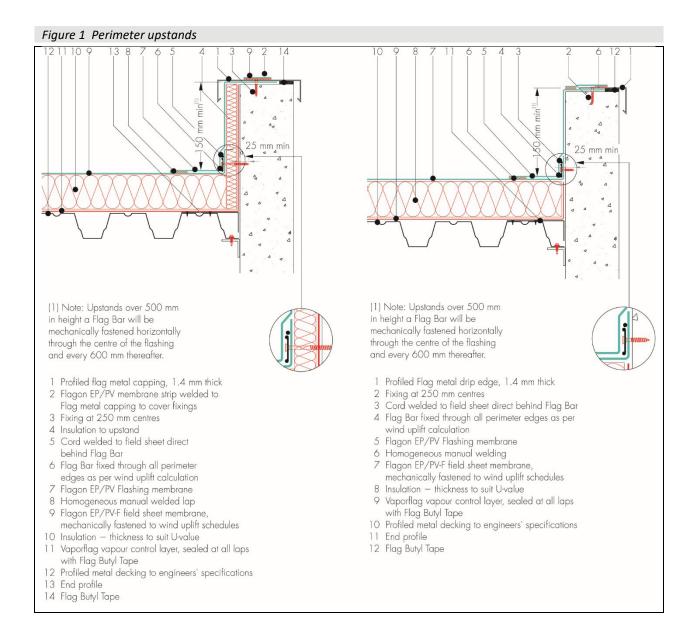
17 Jointing and flashing procedure

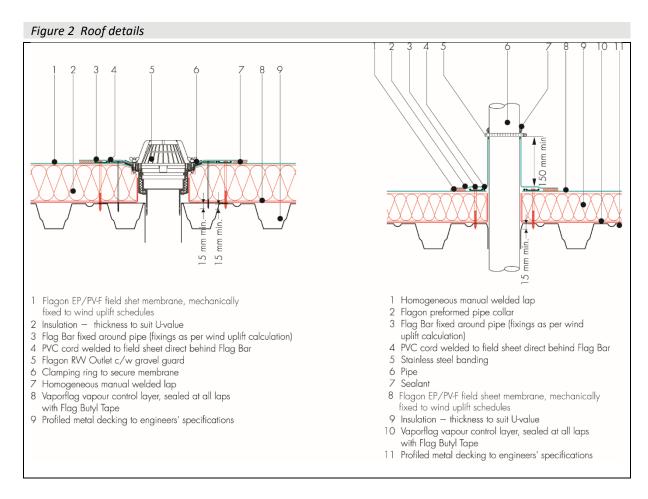
Jointing

- 17.1 Jointing should be, wherever possible, by a hand-held hot-air gun and roller, or an automatic welder. The temperature (400 to 500°C) should be set in accordance with the Certificate holder's instructions, depending on the thickness of the membrane and the ambient temperature.
- 17.2 The welding area should be dry and clean. If the membrane in the weld area has become contaminated, it must be cleaned in accordance with the Certificate holder's instructions.
- 17.3 The welded width of the joint must be a minimum of 50 mm. Care should be taken that overheating of the membrane does not occur, as possible impairment of the membrane may result.
- 17.4 The seam should be tested with a suitable metal probe and any weakness repaired immediately (see section 18 of this Certificate).

Flashing

- 17.5 Flashing and detailing should be formed in accordance with the Certificate holder's instructions (see Figures 1 and 2 for typical examples of detailing).
- 17.6 Flagon EP/PV can be either mechanically fastened or bonded, using Flagon TPO Adhesive, to upstands in accordance with the Certificate holder's instructions.





18 Repair

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

Technical Investigations

19 Tests

18.1 Tests were conducted on Flagon EP/PV and EP/PV-F membranes and the results assessed to determine:

EP/PV

- thickness
- mass per unit area
- tensile strength
- trapezoidal tear
- low temperature foldability

EP/PV-F

- thickness
- · mass per unit area
- nail tear
- static loading
- heat aged followed by low temperature foldability.

18.2 Tests on membranes using the same TPO compound were used to assess Flagon EP/PV and EP/PV-F membranes to determine:

- water resistance of joints
- low temperature foldability
- wind uplift load per fixing
- air leakage at joints
- 'T' peel of joints
- peel strength from a concrete substrate
- heat ageing followed by low temperature foldability
- heat ageing followed by 'T' peel and peel from concrete
- UV aged followed by low temperature foldability.

18.3 Representative samples were taken from an existing site over 15 years old. Comparison testing was carried on new product from the factory, site samples and site samples following additional UV ageing, and results assessed to determine:

- thickness
- mass per unit area
- low temperature foldability
- resistance to dynamic impact.

19 Investigations

- 19.1 Data on fire performance were examined.
- 19.3 The manufacturing process was evaluated, including the methods adopted for quality control, and details were obtained of the quality and composition of the materials used.
- 19.2 Results of root resistance tests on the Flagon EP/FR 1.5 mm membrane were assessed.

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 + A2 : 18 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 Eurocode 1: Actions on structures — General actions — Wind actions

NA to BS EN 1991-1-4 : 2005 UK National Annex to Eurocode 1 : Actions on structures — General actions — Wind actions

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

EN 13956 : 2012 Flexible sheet for waterproofing — Plastic and rubber sheets for roof waterproofing — Definitions and characteristics

EN ISO 9001 : 2015 Quality management systems — Requirements

Conditions of Certification

20 Conditions

20.1 This Certificate:

- relates only to the product/system 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.

20.2 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.

20.3 This Certificate will remain valid for an unlimited period provided that the product/system 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.

20.4 The BBA has used due skill, care and diligence in preparing this Certificate, but no warranty is provided.

20.5 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/system or any other product/system
- the right of the Certificate holder to manufacture, supply, install, maintain or market the product/system
- actual installations of the product/system, including their nature, design, methods, performance, workmanship and maintenance
- any works and constructions in which the product/system is installed, including their nature, design, methods, performance, workmanship and maintenance
- any loss or damage, including personal injury, howsoever caused by the product/system, including its manufacture, supply, installation, use, maintenance and removal
- any claims by the manufacturer relating to CE marking.

20.6 Any information relating to the manufacture, supply, installation, use, maintenance and removal of this product/system which is contained or referred to in this Certificate is the minimum required to be met when the product/system 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.