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Agrément Certificate

21/5881

Product Sheet 1 Issue 2

MASTERLIFE WP WATERPROOFING MEMBRANES

MASTERLIFE WP 754

This Agrément Certificate Product Sheet⁽¹⁾ relates to MasterLife WP 754, a flexible polyolefin (FPO) sheet membrane laminated with a non-woven polypropylene fleece for use as an externally pre-applied damp-proofing and waterproofing membrane on solid concrete floors and walls below ground.

(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 product described herein. This product has been assessed by the BBA as being fit for its intended use provided it is installed, used and maintained as set out in this Certificate.

On behalf of the British Board of Agrément

Date of Second issue: 20 December 2023
Originally certified on 9 April 2021

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 MasterLife WP 754, if installed, used and maintained in accordance with this Certificate, can satisfy or contribute to satisfying the relevant requirements of the following Building Regulations:



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

Requirement:	C2(a)	Resistance to moisture
Comment:		The product, including joints, will enable a structure to satisfy this Requirement. See section 3 of this Certificate.
Regulation:	7(1)	Materials and workmanship
Comment:		The product is acceptable. See sections 8 and 9 of this Certificate.



The Building (Scotland) Regulations 2004 (as amended)

Regulation:	8(1)	Fitness and durability of materials and workmanship
Comment:		The product is acceptable. See sections 8 and 9 of this Certificate.
Regulation:	9	Building standards - construction
Standard:	3.4	Moisture from the ground
Comment:		The product will enable a structure to satisfy this Standard, with reference to clauses 3.4.1 ⁽¹⁾⁽²⁾ , 3.4.5 ⁽¹⁾⁽²⁾ and 3.4.7 ⁽¹⁾⁽²⁾ . See section 3 of this Certificate.
Standard:	7.1(a)	Statement of sustainability
Comment:		The product 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.
Regulation:	12	Building standards - conversions
Comment:		All comments given for the product under Regulation 9, Standards 1 to 6, also apply to this Regulation, with reference to clause 0.12.1 ⁽¹⁾⁽²⁾ and Schedule 6 ⁽¹⁾⁽²⁾ .
		(1) Technical Handbook (Domestic).
		(2) Technical Handbook (Non-Domestic).



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

Regulation:	23(1)(a)(i)	Fitness of materials and workmanship
Comment:	(iii)(b)(i)	The product is acceptable. See sections 8 and 9 of this Certificate.
Regulation:	28(a)	Resistance to moisture and weather
Comment:		The product will enable a structure to satisfy this Regulation. See section 3 of this Certificate.

Additional Information

NHBC Standards 2023

In the opinion of the BBA, MasterLife WP 754, if installed, used and maintained in accordance with this Certificate, can satisfy or contribute to satisfying the relevant requirements in relation to *NHBC Standards*, Chapters 5.1 *Substructure and ground bearing floors*, Clause 5.1.20 *Damp-proofing concrete floors*, for use below the slab and in sandwich constructions and 5.4 *Waterproofing of basements and other below ground structures*.

Where Grade 3 waterproofing protection is required and the below ground wall retains more than 600 mm, measured from the top of the retained ground to the lowest finished floor level, the product must be used in combination with either a Type B or C waterproofing protection, as defined in BS 8102 : 2022.

In the opinion of the BBA, the product is suitable for use on existing structures when installed and used in accordance with this Certificate and *NHBC Standards for Conversions and Renovations*, taking account of other relevant guidance within this document on the suitability of the substrate to receive the system, and, where necessary, the relevant Chapters of *NHBC Standards*.

Fulfilment of Requirements

The BBA has judged MasterLife WP 754 to be satisfactory for use as described in this Certificate. The product has been assessed as an externally pre-applied damp-proofing and waterproofing membrane on solid concrete floors and walls below ground.

ASSESSMENT

Product description and intended use

The Certificate holder provided the following description for the product under assessment:

MasterLife WP 754 consists of an FPO sheet, laminated on one face with a nominal 100 mm non-woven polypropylene fleece selvedge, incorporating a butyl rubber adhesive compound for forming lap joints.

The product has the nominal characteristics given in Table 1.

Table 1 Nominal characteristics of MasterLife WP 754

Characteristic (unit)	Value
Thickness (total) (mm)	1.6
Thickness (mm)	0.8
Roll length (m)	20
Roll width (m)	1.0
Mass per unit area (without butyl rubber adhesive compound) (g·m ⁻²)	850

Ancillary Items

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

- MasterLife WP 754 JT — a cold-applied self-adhesive joint sealing tape comprising a butyl rubber adhesive laminated onto FPO for use at the crosswise section, end laps and for use as a repair tape externally for patches eg tie bar holes
- MasterLife WP 754 IC – a cold-applied pre-formed inside corner waterproof membrane detailing form prefabricated from FPO and incorporating a self-adhesive butyl rubber on the internal face of the membrane for use on a horizontal direction at critical points

- MasterLife WP 754 OC — a cold-applied pre-formed outside corner waterproof membrane detailing form prefabricated from FPO and incorporating a self-adhesive butyl rubber on the internal face of the membrane for use on a horizontal direction at critical points.
- MasterLife WP 754 DT — a cold-applied detailing tape for use at toe details and damaged areas
- MasterLife WP 754 PO — a post-applied sheet membrane waterproofing system consisting of a polyolefin membrane with an adhesive backing
- MasterLife WP 754 RT — a cold-applied repair membrane tape used at overlapping and damaged areas, to repair internally where a bond with non-woven fleece is needed
- MasterLife WP 754 PC — a double-sided cold-applied adhesive pile cap tape used on edges, end points, pile heads and at overlapping areas of MasterLife WP 754

The Certificate holder recommends the following ancillary items for use with the product, but these materials have not been assessed by the BBA and are outside the scope of this Certificate:

- protection fleece and/or protection boards — for use over the membrane to protect it from damage by trafficking during the installation
- pre-fabricated top hats — used at penetrations.
- sealants and liquid-applied membranes — for sealing around penetrations and pile caps.

Applications

The product can be used externally on suitably prepared concrete substrates.

Product assessment – key factors

The product 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

Not applicable.

3 Hygiene, health and the environment

Data were assessed for the following characteristics.

3.1 Resistance to water and water vapour

3.1.1 Results of resistance to water and water vapour tests are given in Table 2.

Table 2 Results of watertightness tests

Product assessed	Assessment method	Requirement	Result
MasterLife WP 754	Resistance to hydrostatic pressure at joint with a 1 mm extension to DIN EN 1928 : 2000 Procedure B Exposure to 5 bar of water pressure for 3 days	No water penetration	Pass
Masterlife WP 754	Resistance to hydrostatic pressure at joints to DIN EN 1928 : 2000 Procedure A Exposure to 1 bar of water pressure for 3 days	No water penetration	Pass
MasterLife WP 754	Water vapour diffusion-equivalent air layer thickness (S_d) to DIN EN 1931 : 2001 Method B	Declared value ≥ 40 m	Pass
MasterLife WP 754	Resistance to lateral water migration to DIN EN 1928 : 2000 Procedure A Exposure to 5 bar of water pressure for 28 days	No water penetration	Pass
MasterLife WP 754	Ability to accommodate crack movement (induced crack 0.2 mm extended to 2.0 mm) to BS EN 14224 : 2010 Exposure to 5 bar of water pressure	No water penetration	Pass
MasterLife WP 754	Resistance to water pressure at joints (60 kPa) to BS EN 1928 : 2000 Exposure to 60 kPa of water pressure for 24 hours	No water penetration	Pass
MasterLife WP 754	Peel strength to poured concrete to DIN 1048 : 1991 Control after 7 days Control after 28 days	Value achieved	0.23 N·mm ⁻² 0.59 N·mm ⁻²

3.1.2 On the basis of data assessed, the product, including joints, when completely sealed and consolidated, will resist the passage of water into the interior of a building and so satisfy the relevant requirements of the national Building Regulations.

3.1.3 The mechanical bond formed between the product and concrete is satisfactory.

3.2 Resistance to mechanical damage

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

Table 3 Results of resistance to mechanical damage tests

Product assessed	Assessment method	Requirement	Result
MasterLife WP 754	Resistance to tear (nail shank) to EN 12310-1 : 2000 Longitudinal Transverse	Value achieved	370 N 382 N
MasterLife WP 754	Resistance to impact to BS EN 12691 : 2018 Method A (aluminium support)	Value achieved	Pass at drop height 300 mm
MasterLife WP 754	Resistance to static loading to CSN EN 12730 : 2015 Method B (concrete)	Value achieved	Pass at 25 kg load
MasterLife WP 754	Foldability at low temperature to BS EN 495-5 : 2013	Value achieved	Pass at -45°C
MasterLife WP 754	Joint shear strength to BS EN 12317-2 : 2010 Control (end joint) Control (side joint)	Value achieved	139.2 N·(50 mm) ⁻¹ 206.4 N·(50 mm) ⁻¹
MasterLife WP 754	Tensile strength to BS EN 12311-2 : 2013 Method B - Control (selvedge edge) Longitudinal Transverse - Control (membrane with fleece) Longitudinal Transverse	Value achieved	12.98 MPa 12.8 MPa 18.21 MPa 15.14 MPa
MasterLife WP 754	Elongation to BS EN 12311-2 : 2013 Method B - Control (selvedge edge) Longitudinal Transverse - Control (membrane with fleece) Longitudinal Transverse	Value achieved	603.8 % 616.2 % 904.6 % 770.8 %
MasterLife WP 754 JT	Tensile strength to BS EN 12311-2 : 2013 Method B - Control Longitudinal Transverse	Value achieved	15.47 MPa 14.79 MPa
MasterLife WP 754 JT	Elongation to BS EN 12311-2 : 2013 Method B - Control Longitudinal Transverse	Value achieved	589.6 % 627.8 %
MasterLife WP 754	Unrolling at low temperature to MOAT 27 : 1983 Clause 5.4.3	Value achieved	No damage at 0°C

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

3.2.3 The product can accommodate the minor structural movements likely to occur in service and remain watertight.

3.2.4 The product will remain flexible and capable of being formed at the minimum recommended temperature.

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

The product contains polyolefins, which can be recycled.

8 Durability

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

8.2 Specific test data were assessed as given in Table 4.

Table 4 Results of durability tests

Product assessed	Assessment method	Requirement	Result
MasterLife WP 754	Resistance to water pressure at joints (60 kPa) to BS EN 1928 : 2000 Exposure to 60 kPa of water pressure for 24 hours - Water soaked (23°C for 180 days)	No water penetration	Pass
MasterLife WP 754	Peel strength to poured concrete to DIN 1048 : 1991 - Aged (28 days) - Heat ageing (28 days at 50°C)	Value achieved	0.59 N·mm ⁻² 0.25 N·mm ⁻²
MasterLife WP 754	Tensile strength to BS EN 12311-2 : 2013 Method B - Heat aged (70°C for 84 days) (servedge edge) Longitudinal Transverse - Water soaked (23°C for 180 days) (membrane with fleece) Longitudinal Transverse	Value achieved	12.56 MPa 10.98 MPa 16.95 MPa 14.26 MPa
MasterLife WP 754	Elongation to BS EN 12311-2 : 2013 Method B - Heat aged (70°C for 84 days) (servedge) Longitudinal Transverse - Water soaked (23°C for 180 days) (membrane with fleece) Longitudinal Transverse	Value achieved	669.5 % 633.8 % 616.8 % 983.8 %
MasterLife WP 754	Joint shear strength to BS EN 12317-2 : 2010 - Heat aged (70°C for 84 days) End joint Side joint - Water soaked (23°C for 180 days) End joint Side joint	Value achieved	154.3 N·(50 mm) ⁻¹ 279.5 N·(50 mm) ⁻¹ 145.2 N·(50 mm) ⁻¹ 212.9 N·(50 mm) ⁻¹
MasterLife WP 754	Compatibility with bitumen to DIN EN 1847 : 2013 / DIN EN 1928 : 2000 Exposure to 60 kPa of water pressure	No water penetration	Pass
MasterLife WP 754	Durability of watertightness against artificial ageing to EN 1296 : 2000 and DIN EN 1928 : 2000 Procedure B Exposure to 60 kPa of water pressure	No water penetration	Pass
MasterLife WP 754	Durability of watertightness against chemicals (alkali resistance) to DIN EN 1847 : 2013 and DIN EN 1928 : 2000 Procedure B Exposure to 60 kPa of water pressure	No water penetration	Pass

8.2.1 The product is compatible with concrete and other building materials and chemicals it is likely to come into contact with under normal service conditions.

8.3 Service life

Under normal service conditions, the product will have a life 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.

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 The product must always be fully protected immediately after it is installed, in accordance with the Certificate holder's instructions.

9.1.3 The product is not resistant to ultraviolet (UV) radiation and must be protected from UV exposure as soon as practicable after it is installed.

9.1.4 The product is intended for use as a fully bonded, Type A waterproofing protection as defined in BS 8102 : 2022, for waterproofing on new-build underground structures, and as a damp-proofing membrane (DPM) for solid floors in accordance with the relevant clauses of CP 102 : 1973, Section 3.

9.1.5 The product can be used externally, or as a damp-proof and waterproof membrane for solid floors, to provide an effective barrier to the transmission of liquid water where Grades 1a to 3 waterproofing protection is required, as defined in BS 8102 : 2022, Table 2. The product must not be used for negative side pressure waterproofing applications.

9.1.6 Where Grade 3 waterproofing protection is required, the environment must also be controlled by use of ventilation, dehumidification or air conditioning (as appropriate), to ensure dampness does not occur.

9.2 Installation

9.2.1 Installation instructions provided by the Certificate holder were assessed and judged to be appropriate and adequate.

9.2.2 Installation must be carried out in accordance with this Certificate and the Certificate holder's instructions and the relevant requirements of BS 8000-0 : 2014, BS 8000-4 : 1989, BS 8102 : 2022 and CP 102 : 1973 Section 3. A summary of instructions and guidance are provided in Annex A of this Certificate.

9.2.3 All surfaces to which the products are to be applied must have a smooth finish, ie they must be free from cavities, projections and mortar deposits. Concrete surfaces must be dense. Surfaces must be dry and free from dust and frost.

9.2.4 The product can be installed in dry conditions at temperatures between 5 and 35°C. Care must be taken to ensure there is no surface condensation when installing at low temperatures that could affect jointing.

9.2.5 The product must be protected as soon as possible after it is laid and prior to pouring concrete to minimise the risk of damage from UV exposure and direct foot trafficking. Direct trafficking by vehicles must be avoided.

9.2.6 Consideration must be given to detailing and all service penetrations in tanking installations. The advice of the Certificate holder must be sought, but such advice is outside the scope of this Certificate.

9.2.7 When protected immediately after installation, the product must not achieve temperatures at which slippage owing to softening of the adhesive layer can occur.

9.2.8 For a solid concrete floor installation, it is essential that the DPM in the floor is continuous with the damp-proof course (DPC) in the surrounding walls. This is achieved by continuing the membrane up internal wall surfaces to tie in with the DPC. A sand/cement screed must be laid immediately after the installation to prevent damage.

9.2.9 When the foundation block extends beyond the concrete structure, the product must be applied to the horizontal surface, and extended up the outer face of the wall and cut into it.

9.2.10 A protection wall of brickwork, blockwork or protection board must be used against the membrane, to protect it against puncture during backfilling, or subsequently by the backfill.

9.2.11 Overlap between sheets must be a minimum of 100 mm at the edge to align evenly over the 100 mm self-adhesive selvage. End laps must be staggered by at least 300 mm. The surface to be overlapped must be dust-free and the membrane must be firmly pressed down to ensure a watertight bond.

9.3 Workmanship

Practicability of installation was assessed by the BBA, on the basis of the Certificate holder's information. To achieve the performance described in this Certificate, installation of the product must be carried out by installers who have been trained and approved by the Certificate holder. The Certificate holder must be consulted for suitable installers.

9.4 Maintenance and repair

9.4.1 As the product is confined within the structure and has suitable durability, maintenance is not required.

9.4.2 Any damage occurring before enclosure must be repaired.

9.4.3 Any damage to the membrane is repaired by cleaning the surrounding area in accordance with the Certificate holder's instructions and applying a patch of MasterLife WP 754 JT. All patched areas must extend a minimum of 100 mm from the damaged area and rolled using a silicone roller to ensure full contact.

10 **Manufacture**

10.1 The production processes for the product 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 product is delivered to site in packaging bearing the Certificate holder's name and traceability information.

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

11.2.1 The product and ancillary items must be stored at temperatures between 5 and 30°C.

11.2.2 MasterLife WP 754 is delivered to site in rolls with nominal dimensions of 1 by 20 m and weighing approximately 19 kg. A maximum of twelve rolls are supplied on a shrink-wrapped pallet. Rolls must be stored in a horizontal position under dry conditions and protected from extremes of temperature and direct sunlight.

11.2.3 MasterLife WP 754 JT is delivered to site in rolls with nominal dimensions of 0.2 by 20 m and weighing approximately 5 kg. As standard, a maximum of 300 rolls are stacked (maximum 4 layers separated by cardboard) on shrink-wrapped pallets. Rolls must be stored with the selvedge in the upright position.

11.2.4 MasterLife WP IC and MasterLife WP OC are packed according to customer requirements in cardboard cartons.

ANNEX A – SUPPLEMENTARY INFORMATION †

Supporting information in this Annex is relevant to the product 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 product 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 product, in accordance with harmonised European Standard EN 13967 : 2012.

Management Systems Certification for production

The management system of the manufacturer has been assessed and registered as meeting the requirements of EN ISO 9001 : 2015 by 3Cert GmbH (Certificate 200123).

Additional information on installation

Horizontal application

A.1 MasterLife WP 754 membrane is unrolled onto the prepared ground with the black fleece component of the membrane facing up, ie towards the concrete pour.

A.2 A second sheet is then laid parallel to the first sheet ensuring an overlap of 100 mm at the edge to align evenly over the 100 mm self-adhesive selvedge on the first sheet and ensuring that end laps will be staggered by at least 300 mm.

A.3 After lining up the two sheets, the release film on the selvedge of the first sheet is peeled back whilst simultaneously applying even hand pressure to ensure contact with the butyl rubber adhesive compound. The joint is then rolled with a silicone roller to ensure full contact. The process is repeated for subsequent sheets.

A.4 End joints in MasterLife WP 754 membrane must be staggered and are butt jointed over a centrally placed strip of MasterLife WP 754 JT. Once aligned, the release films are removed from the strip and the membrane firmly pressed into the butyl adhesive and rolled to ensure full contact.

A.5 The membrane is terminated at walls by applying a strip of MasterLife WP 754 JT centrally at the change of direction and laying the membrane tight against the wall. The horizontally aligned release film is removed, and the membrane pressed onto the butyl adhesive and rolled to ensure full contact.

A.6 Internal and external corners can be made using MasterLife WP IC and MasterLife WP OC prefabricated sections.

Vertical application

A.7 The membrane is applied to the shuttering supported at the top with staples or a baton with the black fleece component facing towards the concrete pour.

A.8 A second sheet is applied parallel to the first sheet ensuring an overlap of 100 mm at the edge to align evenly over the 100 mm self-adhesive selvedge on the first sheet and ensuring that end laps will be staggered by at least 300 mm.

A.9 After lining up the two sheets, the release film on the selvedge of the first sheet is peeled back whilst simultaneously applying even hand pressure to ensure contact with the butyl rubber adhesive compound. The joint is then rolled with a silicone roller to ensure full contact. The process is repeated for subsequent sheets.

A.10 End joints in MasterLife WP 754 membrane must be staggered and are butt jointed over a centrally placed strip of MasterLife WP 754 JT. Once aligned the release films are removed from the strip and the membrane firmly pressed into the butyl adhesive and rolled to ensure full contact.

A.11 The membrane is terminated at changes of direction by applying a strip of MasterLife WP 754 JT centrally at the corners fixing with staples and laying the membrane tight into the corner. The appropriate release film is removed from MasterLife WP 754 JT, and the membrane pressed onto the butyl adhesive and rolled to ensure full contact.

Bibliography

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 8102 : 2022 *Protection of below ground structures against water ingress — Code of practice*

BS EN 495-5 : 2013 *Flexible sheets for waterproofing — Determination of foldability at low temperatures — Part 5 : Plastic and rubber sheet for roof waterproofing*

BS EN 1928 : 2000 *Flexible sheets for waterproofing — Bitumen, plastic and rubber sheets for roof waterproofing — Determination of watertightness*

BS EN 12311-2 : 2013 *Flexible sheets for waterproofing — Determination of tensile properties — Part 2 : Plastic and rubber sheets for roof waterproofing*

BS EN 12317-2 : 2010 *Flexible sheets for waterproofing — Determination of shear resistance of joints — Part 2 : Plastic and rubber sheets for roof waterproofing*

BS EN 12691 : 2018 *Flexible sheets for waterproofing — Bitumen, plastic and rubber sheets for roof waterproofing — Determination of resistance to impact*

BS EN 14224 : 2010 *Flexible sheets for waterproofing — Waterproofing of concrete bridge decks and other concrete surfaces trafficable by vehicles — Determination of crack bridging ability*

CP 102 : 1973 *Protection of buildings against water from the ground — Code of Practice*

CSN EN 12730 : 2015 *Flexible sheets for waterproofing — Bitumen, plastic and rubber sheets for roof waterproofing — Determination of resistance to static loading*

DIN EN 1928 : 2000 *Flexible sheets for waterproofing — Bitumen, plastic and rubber sheets for waterproofing — Determination of watertightness*

DIN EN 1931 : 2001 *Flexible sheets for waterproofing — Bitumen, plastic and rubber sheets for waterproofing — Determination of water vapour transmission properties*

DIN EN 1847 : 2013 *Flexible sheets for waterproofing — Plastic and rubber sheets for waterproofing — Methods for exposure to liquid chemicals, including water*

EN 1296 : 2000 *Flexible sheets for waterproofing — Bitumen, plastic and rubber sheets for roofing — Method of artificial ageing by long term exposure to elevated temperature*

EN 12310-1 : 2000 – *Flexible sheets for waterproofing – Determination of resistance to tearing (nail shank)*

EN 13967 : 2012 + A1 : 2017 *Flexible sheets for waterproofing — Plastic and rubber damp proof sheets including plastic and rubber basement tanking sheet — Definitions and characteristics*

EN ISO 9001 : 2015 *Quality management systems – Requirements*

DIN 1048 : 1991

MOAT 27 : 1983 *PVC Flexibility at low temperature, impact, tear resistance and indentation for roof waterproofing*

Conditions of Certificate

Conditions

1 This Certificate:

- relates only to the product that is named and described on the front page
- is issued only to the company, firm, organisation or person named on the front page – no other company, firm, organisation or person may hold or claim that this Certificate has been issued to them
- is valid only within the UK
- has to be read, considered and used as a whole document – it may be misleading and will be incomplete to be selective
- is copyright of the BBA
- is subject to English Law.

2 Publications, documents, specifications, legislation, regulations, standards and the like referenced in this Certificate are those that were current and/or deemed relevant by the BBA at the date of issue or reissue of this Certificate.

3 This Certificate will be displayed on the BBA website, and the Certificate Holder is entitled to use the Certificate and Certificate logo, provided that the product and its manufacture and/or fabrication, including all related and relevant parts and processes thereof:

- are maintained at or above the levels which have been assessed and found to be satisfactory by the BBA
- continue to be checked as and when deemed appropriate by the BBA under arrangements that it will determine
- are reviewed by the BBA as and when it considers appropriate.

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

5 In issuing this Certificate the BBA is not responsible and is excluded from any liability to any company, firm, organisation or person, for any matters arising directly or indirectly from:

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

6 Any information relating to the manufacture, supply, installation, use, maintenance and removal of this product which is contained or referred to in this Certificate is the minimum required to be met when the product is manufactured, supplied, installed, used, maintained and removed. It does not purport in any way to restate the requirements of the Health and Safety at Work etc. Act 1974, or of any other statutory, common law or other duty which may exist at the date of issue or reissue of this Certificate; nor is conformity with such information to be taken as satisfying the requirements of the 1974 Act or of any statutory, common law or other duty of care.

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