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Agrément Certificate

05/4221

Product Sheet 2 Issue 7

DON & LOW ROOF TILE UNDERLAYS

MULTITX BARRIER UNDERLAYS

This Agrément Certificate Product Sheet⁽¹⁾ relates to MultiTX⁽²⁾ Barrier Underlays, for use in tiled and slated ventilated pitched roofs of up to 70° pitch in supported and unsupported applications.

(1) Hereinafter referred to as 'Certificate'.

(2) MultiTX is a registered trademark of Don & Low Ltd.

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 products described herein. These products 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 Seventh issue: 2 April 2024
Originally certificated on 8 July 2008

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 MultiTX Plus Barrier Underlays, 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:	B3(4)	Internal fire spread
Comment:		The products can contribute to satisfying this Requirement. See section 2 of this Certificate.
Requirement:	C2(b)	Resistance to moisture
Comment:		The products will contribute to satisfying this Requirement. See section 3 of this Certificate.
Requirement:	C2(c)	Resistance to moisture
Comment:		The products can contribute to satisfying this Requirement. See section 3 of this Certificate.
Regulation:	7(1)	Materials and workmanship
Comment:		The products are 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 products can contribute to satisfying this Regulation. See sections 8 and 9 of this Certificate.
Regulation:	9	Building standards - construction
Standard:	2.4	Cavities
Comment:		The products can contribute to satisfying this Standard with respect to clause 2.4.2 ⁽¹⁾⁽²⁾ . See section 2 of this Certificate.
Standard:	3.10	Precipitation
Comment:		The products will contribute to satisfying this Standard with respect to clauses 3.10.1 ⁽¹⁾⁽²⁾ and 3.10.8 ⁽¹⁾⁽²⁾ . See section 3 of this Certificate.
Standard:	3.15	Condensation
Comment:		The products can contribute to satisfying this Standard with respect to clauses 3.15.1 ⁽¹⁾⁽²⁾ , 3.15.3 ⁽¹⁾⁽²⁾ and 3.15.7 ⁽¹⁾⁽²⁾ . See section 3 of this Certificate.
Standard:	7.1(a)	Statement of sustainability
Comment:		The products 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:		Comments in relation to the products 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 products are acceptable. See sections 8 and 9 of this Certificate.
Regulation:	28(b)	Resistance to moisture and weather
Comment:		The products will contribute to satisfying this Regulation. See section 3 of this Certificate.
Regulation:	29	Condensation
Comment:		The products can contribute to satisfying this Regulation. See section 3 of this Certificate.
Regulation:	35(4)	Internal fire spread - structure
Comment:		The products can contribute to satisfying this Regulation. See section 2 of this Certificate.

Additional Information

NHBC Standards 2024

In the opinion of the BBA, MultiTX Barrier Underlays, 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 7.2 *Pitched roofs*.

Fulfilment of Requirements

The BBA has judged MultiTX Barrier Underlays to be satisfactory for use as described in this Certificate. The products have been assessed as roof tile underlays for use in tiled and slated ventilated pitched roofs up to 70° pitch in supported and unsupported applications.

ASSESSMENT

Product description and intended use

The Certificate holder provided the following description for the products under assessment. MultiTX Barrier Underlays are three-layer composites comprising two spun-bonded polypropylene fabrics with a barrier membrane in the middle.

The products are also available with integrated tape for sealing overlaps. These versions are named Conseal.

The products have the nominal characteristics given in Table 1.

Table 1 Nominal characteristics of MultiTX Barrier

	MultiTX Plus/ Conseal	MultiTX Pro / Conseal	MultiTX Maxi/ Conseal
Thickness (mm)	0.5	0.6	0.7
Mass per unit area (g·m ⁻²)	116	145	190
Roll length (m) ⁽¹⁾	50	50	50
Roll width (m) ⁽¹⁾	1.0	1.0	1.0
Colour ⁽¹⁾			
upper	Black	Black	Black
lower	Grey	Grey	Grey

(1) Other lengths widths and colours are available on request.

Applications

The products have been assessed for use as supported (and secured with counter battens and tiling battens) or unsupported (installed by draping over rafters and securing with tiling battens) underlays on uninsulated timber sarking in tiled and slated ventilated pitched roofs constructed in accordance with the relevant clauses of BS 5534 : 2014.

Definitions for products and applications inspected

A pitched roof is defined for the purpose of this Certificate as a roof having a fall in excess of 10° and a maximum pitch of 70°.

Product assessment – key factors

The products have been 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

Data were assessed for the following characteristics.

1.1 Resistance to wind uplift

1.1.1 Results of resistance to wind uplift tests to BS 5534:2014, and consequent Zones of applicability and are given in Tables 2 and 3 of this Certificate.

Table 2 Declared wind uplift resistance (Pa)

Product	≤345 mm batten gauge with battened laps ⁽³⁾	≤250 mm batten gauge with battened laps ⁽²⁾⁽³⁾	≤345 mm batten gauge with taped laps ⁽³⁾	≤345 mm batten gauge with integrated taped laps ⁽³⁾ (Conseal)	≤345 mm batten gauge with counterbatten ⁽¹⁾⁽³⁾
MultiTX Plus Barrier	1119	2165	>1932	2949	1932
MultiTX Pro Barrier	1386	-	-	-	>1600
MultiTX Maxi Barrier	1721	-	-	-	>1600

(1) This applies to any counter batten ≥11 mm deep. NHBC does not accept the wind zones and wind uplift resistance based on the use of counter battens on an unsupported roof.

(2) Underlays with a wind uplift resistance at a 250 mm batten gauge that satisfy the minimum design wind pressure of 820 Pa for Zone 1 are considered to satisfy the requirements for use at 100 mm batten gauge in all Wind Zones.

(3) Mean of test results.

Table 3 Zones of applicability according to BS 5534 : 2014, Clause A.8 with battened laps, taped laps, integrated taped laps and laps with counterbattens

Product	≤345 mm batten gauge with battened lap	≤250 mm batten gauge with battened lap	≤345 mm batten gauge with taped laps	≤345 mm batten gauge with integrated taped laps (Conseal)	≤345 mm batten gauge with counterbatten ⁽¹⁾
MultiTX Plus Barrier	Zones 1 to 2	Zones 1 to 5	Zones 1 to 5	Zones 1 to 5	Zones 1 to 5
MultiTX Pro Barrier	Zones 1 to 4	-	-	-	Zones 1 to 5
MultiTX Maxi Barrier	Zones 1 to 5	-	-	-	Zones 1 to 5

(1) This applies to any counter batten ≥11 mm deep. NHBC does not accept the wind zones and wind uplift resistance when using counter battens on an unsupported roof.

1.1.2 On the basis of data assessed, the products are satisfactory for use in unsupported systems in the geographical Wind Zones given in Table 2, where a well-sealed ceiling, as defined in BS 9250 : 2007, Clause 3.7, is present and the roof has a ridge height of ≤ 15 m, a pitch between 12.5 and 70°, and a site altitude ≤ 100 m and where topography is not significant. For all other cases, the required uplift resistance must be determined using BS 5534 : 2014 and the Certificate holder's declared wind uplift resistances given in Table 2 of this Certificate.

1.1.3 Timber sarking, such as square-edged butt-jointed planks, are not considered to be airtight and the underlay is treated as unsupported.

1.1.4 The products may be used at any batten gauge in all wind zones when laid over nominally airtight sheet sarking (for example suitable OSB, plywood, chipboard) and insulation for warm-roof designs. In warm roof applications the products may also be used where slates are nailed directly onto sarking boards in conjunction with an air and vapour control layer installed below the insulation .

1.2 Resistance to mechanical damage

1.2.1 Results of resistance to mechanical damage tests are given in Table 4.

Table 4 Results of mechanical damage

Product assessed	Assessment method	Requirement	Result
	Nail tear to EN 12310-1 : 2000 with modifications as per BS EN 13859-1 : 2014 Annex B	≥ 50 N	
MultiTX Plus Barrier	longitudinal direction		Pass
MultiTX Pro Barrier			Pass
MultiTX Maxi Barrier			Pass
MultiTX Plus Barrier	transverse direction		Pass
MultiTX Pro Barrier			Pass
MultiTX Maxi Barrier			Pass

1.2.2 Existing data on Mullen burst strength of a material from a related representative product was assessed and satisfactory.

1.2.3 On the basis of data assessed, MultiTX Barrier Underlays have adequate strength to resist the loads associated with installation of the roof.

2 Safety in case of fire

Data were assessed for the following characteristics.

2.1 Reaction to fire

2.1.1 The results of reaction to fire test are given in Table 5.

Table 5 Results of Reaction to fire test

Product assessed	Assessment method	Requirement	Result
MultiTX Plus Barrier	Reaction to fire tested to BS EN ISO 11925-2 : 2010 and classified to BS EN 13501-1 : 2018 ⁽¹⁾⁽⁴⁾	Value achieved	Classification F
MultiTX Pro Barrier	Reaction to fire tested to BS EN ISO 11925-2 : 2020 and classified to BS EN 13501-1 : 2018 ⁽²⁾⁽⁴⁾	Value achieved	Classification F
MultiTX Maxi Barrier	Reaction to fire tested to BS EN ISO 11925-2 : 2020 and classified to BS EN 13501-1 : 2018 ⁽³⁾⁽⁴⁾	Value achieved	Classification F

(1) Test reports reference 27/05555C/02/21, issued by BTTG Testing & Certification Ltd. The reports are available from the Certificate holder on request.

(2) Test reports reference 27/06129A/04/23, issued by BTTG Testing & Certification Ltd. The reports are available from the Certificate holder on request.

(3) Test reports reference 27/06129B/04/23, issued by BTTG Testing & Certification Ltd. The reports are available from the Certificate holder on request.

(4) The specimens were tested free standing and unsupported without a backing board.

2.1.2 Designers should refer to the relevant national Building Regulations and guidance for detailed conditions of use, particularly in respect of requirements for substrate fire performance, cavity barriers, service penetrations and combustibility limitations for other materials and components used in the overall construction.

2.1.3 When the products are used unsupported, there is a risk that fire can spread if they are accidentally ignited during maintenance works, eg by a roofer's or plumber's torch. As with all types of underlay, care must be taken during building and maintenance to avoid ignition.

2.1.4 When the products are used with timber sarking, such as square-edged butt jointed planks, the reaction to fire will be primarily determined by the sarking.

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 6.

Table 6 Weathertightness

Product assessed	Assessment method	Requirement	Result
MultiTX Plus Barrier	Resistance to water penetration to EN 1928 : 2000 with modifications as per BS EN 13859-1 : 2005 Annex A	No leakage	Pass
MultiTX Plus Barrier	Resistance to streaming water to MOAT 69 : 2004 Unsupported	No leakage	Pass

3.1.2 On the basis of data assessed, the products can be used supported and unsupported without affecting its water resistance.

3.1.3 The products are classified as Class W1 in accordance with BS EN 13859-1 : 2014. The products will resist the passage of water, wind-blown snow and dust into the interior of a building under all conditions to be found in a roof constructed in accordance with the relevant clauses of BS 5534 : 2014.

3.1.4 The products' resist penetration of liquid water and consequently may be used as temporary weatherproofing prior to the installation of slates or tiles. The period of such use should, however, be kept to a minimum.

3.2 Condensation

3.2.1 Results of water vapour transmission tests are given in Table 7.

Product assessed	Assessment method	Requirement	Result
MultiTX Plus Barrier	Water vapour transmission rate to BS 3177 : 1959 ⁽¹⁾	Value achieved	2.7 g.m ² .day ⁻¹
MultiTX Plus Barrier	Water vapour resistance to BS 3177:1959 ⁽¹⁾	>2.5 MNsg ⁻¹	Pass

(1) Tested prior to the publication of harmonised European Standard EN 13859-1 : 2014

3.2.1 For roofs designed in accordance with BS 5534 : 2014 and BS 5250 : 2021, the products may be regarded as a Type HR underlays.

3.2.2 On the basis of data assessed, products are regarded as impermeable underlays when considering ventilation of a roof space.

4 Safety and accessibility in use

Data were assessed for the following characteristics.

4.1 Slip resistance

4.1.1 Existing data on the slip resistance a related representative product was assessed.

4.1.2 On the basis of data assessed, the products have a high coefficient of friction giving a slip-resistant surface for increased safety during installation.

5 Protection against noise

Not applicable.

6 Energy economy and heat retention

Not applicable.

7 Sustainable use of natural resources

The products are made from polyolefins, which can be recycled.

8 Durability

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

8.2 Specific test data were assessed, as given in Table 8.

Table 8 Results of durability tests

Product assessed	Assessment method	Requirement	Result
	Tensile strength to BS EN 12311-1 : 2000 with modifications as per BS EN 13859-1 : 2014 Annex A	Declared Value	
MultiTX Plus Barrier	longitudinal direction	260 (-70) N per 50 mm	Pass
MultiTX Pro Barrier		290 (-40) N per 50 mm	Pass
MultiTX Maxi Barrier		400 (-60) N per 50 mm	Pass
MultiTX Plus Barrier	transverse direction	170 (-50) N per 50 mm	Pass
MultiTX Pro Barrier		220 (-40) N per 50 mm	Pass
MultiTX Maxi Barrier		300 (-60) N per 50 mm	Pass
	Tensile strength to BS EN 12311-1 : 2000 with modifications as per BS EN 13859-1 : 2014 Annex A and BS EN 13859-1 : 2014 Annex C.		
MultiTX Plus Barrier	longitudinal direction	Change < 30%	Pass
	transverse direction		Pass
	Elongation to BS EN 12311-1 : 2000 with modifications as per BS EN 13859-1 : 2014 Annex A		
	Control:	Declared Value	
MultiTX Plus Barrier	longitudinal direction	60 (-20) %	Pass
MultiTX Pro Barrier		70 (-20) %	Pass
MultiTX Maxi Barrier		70 (-20) %	Pass
MultiTX Plus Barrier	transverse direction	70 (-20) %	Pass
MultiTX Pro Barrier		100 (-20) %	Pass
MultiTX Maxi Barrier		100 (-20) %	Pass
	Elongation to BS EN 12311-1 : 2000 with modifications as per BS EN 13859-1 : 2014 Annex A and BS EN 13859-1 : 2014 Annex C.	Declared value	
MultiTX Plus Barrier	longitudinal direction	40 (-20) %	Pass
	transverse direction	50 (-20) %	Pass
MultiTX Plus Barrier	Resistance to water penetration to EN 1928 : 2000 with modifications as per BS EN 13859-1 : 2005 Annex A and BS EN 13859-1 : 2005 Annex C.	No leakage	Pass

8.2 Existing data on Dimensional stability and wet strength (24 hrs water soak) of a related representative product were assessed.

8.3 Service life

8.3.1 Under normal service conditions, the products will have a service life comparable with that of traditional roof tile underlays, provided they are not exposed to sunlight for long periods, and are designed, installed and maintained in accordance with this Certificate and the Certificate holder's instructions.

8.3.2 The exposure of the products prior to completion of the roof must be kept to a minimum. Advice regarding exposure can be obtained from the Certificate holder, but such advice is outside the scope of this Certificate.

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

9 Design, installation, workmanship and maintenance

9.1 Design

9.1.1 Project design wind speeds for the roof in which the products are installed must be determined, and wind uplift forces calculated, by a suitably experienced and competent individual, in accordance with the principles of BS EN 1991-1-4 : 2005 and its UK National Annex.

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, the Certificate holder's instructions and the relevant recommendations of BS 5534 : 2014, BS 8000-0 : 2014 and BS 8000-6 : 2023. Installation can be carried out under all conditions normal to roofing work. A summary of instructions and guidance is provided in Annex A of this Certificate.

9.2.3 The NHBC requires that the products, once installed, be inspected in accordance with of *NHBC Standards 2024*, Chapter 7.2 *Pitched roofs*. Any damage to the products assessed in this Certificate must be repaired in accordance with section 9.4 of this Certificate and reinspected, in order to maintain product performance.

9.2.4 The products must be installed with the printed side uppermost and lapped to shed water out and down the slope.

9.2.5 Overlaps must be provided with the minimum dimensions given in Table 9. The Certificate holder's advice must be sought when using tapes for sealing overlaps, but such advice is outside the scope of this Certificate.

Table 9 Minimum overlaps

Roof pitch (°)	Horizontal laps (mm)- untaped, taped and integrated taped		Vertical lap (mm)
	Not fully supported	Fully supported	
12.5 < 15	225	150	100
≥15	150	100	100

Procedure

9.2.6 When used supported, the products must not be laid directly onto insulated sarking boards but must be laid on timber sarking in conjunction with counter battens.

9.2.7 The products, when installed on a cold ventilated pitched roof, are fixed in the traditional method for roof tile underlays, ie draped between the rafters, or used in conjunction with counterbattens.

9.2.8 When used in a hybrid warm roof specification, a ventilation gap of at least 20 mm between the insulation and the underlays must be allowed. A vapour control layer must be used on the underside of the insulation.

9.3 Workmanship

Practicability of installation was assessed by the BBA, on the basis of the Certificate holder's instruction and BS 5534 : 2014. To achieve the performance described in this Certificate, installation of the products must be carried out by a competent general builder, or a contractor, experienced with this type of product.

9.4 Maintenance and repair

9.4.1 As the products are confined in a roof structure and have suitable durability, maintenance is not required. However, any damage occurring before enclosure must be repaired.

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

9.4.2.1 Damage to the products must be repaired prior to the installation of slates or tiles, by replacing the damaged areas or by patching and sealing correctly. Care must be taken to ensure that the watertightness of the roof is maintained.

10 **Manufacture**

10.1 The production processes for the products 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 products are delivered to site in individually wrapped in polythene packaging. A technical leaflet is included bearing the product name and BBA logo incorporating the number of this certificate. Labels with lot identifiers are attached to each roll for traceability.

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

11.2.1 Rolls must be stored flat on their sides or on end, on a smooth, clean, dry surface, under cover and protected from sunlight.

Supporting information in this Annex is relevant to the products 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.

UKCA marking

The Certificate holder has taken the responsibility of UKCA marking the products, in accordance with Designated Standard EN 13859-1 : 2014.

CE marking

The Certificate holder has taken the responsibility of CE marking the products in accordance with harmonised European Standard EN 13859-1 : 2014.

Management Systems Certification for production

The management system of the Certificate holder has been assessed and registered as meeting the requirements of ISO 9001 : 2015 by BSI (Certificate FM 45536).

Additional information on installation

General

- A.1 Where possible, eaves guards should be used to protect the product from sunlight and direct water into the gutter.
- A.2 Detailing of abutments, verges and hips must be in accordance with the Certificate holder's instructions.
- A.3 Tiling and slating must be carried out in accordance with the relevant clauses of BS 5534 : 2014, BS 8000-0 : 2014 and BS 8000-6 : 2023 and the Certificate holder's instructions, especially when using tightly-jointed slates or tiles.
- A.4 When used in direct contact with treated timber the advice of the Certificate holder must be sought on compatibility, but such advice is outside the scope of this Certificate.

Condensation

A.5 The risk of condensation is highest in new-build construction during the first heating period, where there is high moisture loading due to wet trades, such as in-situ cast concrete slabs or plaster. The risk of condensation diminishes as the building naturally dries out. See BBA Information Bulletin No 1 *Roof Tile Underlays in Cold Roofs during the Drying-out Period*.

Bibliography

BS 5250 : 2021 *Management of moisture in buildings — Code of practice*

BS 5534 : 2014 + A2 : 2018 *Slating and tiling for pitched roofs and vertical cladding — Code of practice*

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

BS 8000-0 : 2014 *Workmanship on construction sites — Introduction and general principles*

BS 8000-6 : 2023 *Workmanship on building sites — Code of practice for slating and tiling of roofs and walls*

BS 9250 : 2007 *Code of practice for design of the airtightness of ceilings in pitched roofs*

BS EN 1991-1-4 : 2005 + A1 : 2010 *Eurocode 1 : Actions on structures — General actions — Wind actions*

NA to BS EN 1991-1-4 : 2005 + A1 : 2010 *UK National Annex to Eurocode 1 : Actions on structures — General actions — Wind actions*

BS EN 13501-1 : 2018 *Fire classification of construction products and building elements — Classification using test data from reaction to fire tests*

BS EN ISO 11925-2 : 2020 *Reaction to fire tests. Ignitability of products subjected to direct impingement of flame. Single-flame source test*

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

EN 13859-1 : 2014 *Flexible sheets for waterproofing — Definitions and characteristics of underlays — Underlays for discontinuous roofing*

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

BS EN 12311-1 : 2000 *Flexible sheets for waterproofing. Determination of tensile properties. Bitumen sheets for roof waterproofing*

ISO 9001 : 2015 *Quality management systems — Requirements*

MOAT 69 : 2004 *UEAtc Technical Report for the Assessment of Discontinuous Roofing Underlay Systems*

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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