Certificate No: EW1101B

This certificate is valid for Building Regulations & associated technical guidance in force on the date of registration and for the regulations in the countries indicated

Breatheshield 120 Vapour Permeable Roofing Membrane

Description of Product

This is an assessment of Breatheshield 120 a water vapour permeable membrane with a mass of 120gms suitable for use in all types of domestic and commercial roof applications.

The Breatheshield 120 is second up from the entry level product within the Breatheshield range and is a high performance Vapour Permeable Underlay (VPU) that compliments the range of high performance Roof Tile Underlays (RTU's).

The product has a high tensile strength and is treated to withstand up to 4 months UV radiation.

The product is tested to EN 13859-1 and is CE certified.

Key Factors Assessed

- Mechanical Resistance & Stability
- Safety in case of Fire
- Health, Hygiene and Environmental
- Safety in Use
- Energy Economy and heat retention
- Durability serviceability and identification

Validity

This certificate was first issued on 4th June 2019 and is valid until 4th June 2023

Issue Dated 1st October 2020

LABC | 66 South Lambeth Rd | London | SW8 1RL
T: 0207 0916865 | DD: 07850 307601 | F: 0207 0916879 | www.labc.uk.com/registereddetails

Scope of Registration

Breatheshield 120 may be fixed using traditional clout nails or staples and is to be laid with the Breatheshield logo facing up and lap lines are identified.

The membrane can be used with traditional battens or counter battens. The membrane should be draped over the rafters but not pulled tight so as to allow the passage of water to the eaves.

The membrane lap is 150mm which would be correct for the most common pitches. With a shallow pitch the installer may have to increase the lap to 200mm below 20 degrees or even 225mm below 15 degrees. Up to 35 degrees the lap would be the marked 150mm. With steeper pitches above 35 degrees a lap of 100mm would suffice. Valleys and hips would require laps of 300mm or more.

Adherence to BS 5534 (Code of Practice for Slating and Tiling) and BS5250 is recommended and laps should fall below a batten, an alternative approach to this would be to tape the lap with an acrylic tape. As long as BS 5534 (A) is observed Breatheshield can be used as per the guidance found on each roll.

BS 5250 refers to the control of condensation in roof spaces, Breatheshield 120 is a vapour permeable underlay (VPU) and as such it will aid the passage of vapour from a building.

As with all membranes, Breatheshield should not be exposed and draped into the gutter and a suitable eaves tray such as Garde's Eaveshield should be used, the UV exposure limit is 4 months

The membrane allows moisture vapour to escape from the roof through the fabric in a controlled consistent manner reducing the requirements for additional ventilation as the risk of condensation formation is eliminated, moisture trapped within the structure during construction stage will be allowed to pass out and moisture created once the building is occupied will not be trapped in the roof structure where condensation would cause damage.

On a boarded roof or when the rafter space is fully insulated counter battens should be incorporated to allow for the passage of moisture to the gutter.

Adherence to BS 5250 would be essential on a boarded roof as cross ventilation will be required as a sarking board would prevent the passage of moisture.

Membrane Properties:

Weight, g/m2	120
UV Resistance	4 months
Head of Water	6.2m
Tensile Strength	250N & 180N
Roll sizes	1m x 50m and 1.5m x 50m
Colour	Dark grey

Conditions of Certificate

The membrane should be installed as per the manufacturer's instructions.

Wind uplift testing to BS5534 (A) has identified Breatheshield 120 is approved for use in UK zones 1, 2 and 3.

Regulations

LABC consider that, Breatheshield 120 will meet the functional requirements of the Building Regulations (listed below) if the criteria detailed in this certificate are met;

The Building Regulations 2010 (as amended) England & Wales

Regulation 7	Materials and workmanship
Note:	The product is acceptable.
AD C	Resistance to Moisture
Note:	The product is acceptable.
AD F	Ventilation
Note:	The product is acceptable.
AD L1A	Conservation of Fuel and Power in new dwellings
Note:	The product is acceptable.
AD L1B	Conservation of Fuel and Power in existing dwellings
Note:	The product is acceptable.
AD L2A	Conservation of Fuel and Power in new buildings other than dwellings
Note:	The product is acceptable.
AD L2B	Conservation of Fuel and Power in existing buildings other than dwellings
Note:	The product is acceptable.

The Building Regulations 2010 (as amended) England

AD L1A	Conservation of Fuel and Power in new dwellings
Note:	The product is acceptable.

The Building Regulations 2010 (as amended) Wales

AD L1A	Conservation of Fuel and Power in new dwellings
Note:	The product is acceptable.

The Building (Scotland) Regulations 2004 (as amended)

If you would like to discuss a specific use of the product in Scotland it will require an additional assessment under the Scottish Building Regulations and accordingly you should contact the LABSS STAS Administrator at www.labss.org

Non-Regulatory Information

LABC Warranty

Pending assessment.

Supporting Documentation

Breatheshield Declaration of performance – Premium 120 / Breatheshield 120 Dated 1st December 2015

BTTG High Performance Materials supplement report 2 to 11/18699/A

BTTG High Performance Materials supplement report 2 to 11/18699/B

Breatheshield Fixing Guide

Breatheshield product brochure

Contact Information