

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

Permavent APeX Air Permeable Membrane

Description of Product

The APeX Air Permeable Membrane is a high performance Vapour Permeable Underlay (VPU) that complements the range of high performance Roof Tile Underlays (RTU's) manufactured by Permavent Limited. The unique induction bonding process allows for stepped changes that increase the flexibility of the boundaries when establishing the final performance of the membrane.

They have fine-tuned the technology to produce a breather membrane with air permeable qualities that are ideally suited to the construction methods here in the UK. The membrane allows air and water vapour to escape through the fabric therefore omitting the requirement for any additional ventilation.



Key Factors Assessed

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

Validity

This certificate was first issued on 24th June 2019 and is valid until 24th October 2021

Issue Dated 23rd October 2020

Scope of Registration

This is an assessment of a water vapour permeable membrane manufactured by Permavent Limited for use in all types of domestic and commercial roof applications, the membrane can be used in:

- Vented and unvented "cold" roofs
- Unvented "warm" roof
- Roof structures containing sarking board
- Roofs containing a room in roof space

The membrane comes supplied with a Butyl double sided integrated tape so that laps are bonded. Overlaps on the material should be a minimum of 100mm wide when used with tape. The integral tape allows for a fast installation time, fabric laps should line up but don't have to be extended to align with existing battens which reduces material wastage and secondary tapes are not required. When used without tape, the overlap should be 150mm.

Permavent APeX Air Permeable Membrane is a high performance vapour permeable underlay which has been tested by the BRE and has passed the BS 5534 annex.

Permavent APeX Air Permeable Membrane wind uplift results

Batten gauge	Declared Wind Uplift Resistance, PD (N/m ²)	Zone Suitability
<u>≤345 mm</u> (maximum gauge, large format tiles)	Taped lap: 2543 Batten restrained lap: 1241	1 to 5 (All applications) 1 to 3 (Domestic applications)
<u>≤250mm</u> (600mm slates)	Taped lap: >2543 Batten restrained lap: 2977	1 to 5 (All applications) 1 to 5 (All applications)

The test results indicate the membrane is suitable in all 5 exposure regions throughout the UK, when installed with a 345mm batten gauge and the butyl double sided integrated tape.

If there is reliance on batten restraint only then the 345mm gauge is limited to zones 1-3, a 250mm batten gauge would be required to make it acceptable in all zones.

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.

LABC consider that, Permavent APeX Air Permeable Membrane, 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

AD C	Resistance to Moisture
Note:	The product is acceptable as per the scope of registration.
AD F	Ventilation
Note:	The product is acceptable as per the scope of registration.
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.
Regulation 7	Materials and Workmanship
Note:	The product is acceptable as per the scope of registration.



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

The use of the Permavent APeX Air Permeable Membrane has not been assessed to meet the requirements of the LABC Warranty Technical Manual. If you would like to discuss a specific use please make an enquiry to technical.services@labcwarranty.co.uk

Supporting Documentation

Permavent Declaration of Performance: Document PVB/APEX/001

Permavent APeX Product Card

BRE Test Report: 300-432 Issue 5 Dated 18th February 2015

Kiwa APeX Test Report Number: 1.1/11280/1111.0.1-2016e Dated 15th March 2017

Contact Information

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