

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

PermaFol

Description of Product

PermaFol is an insulated breathable membrane for use in roofs and walls. It has the benefit of a Euroclass fire rating of A2s1do and has a thermal conductivity (lambda value) of 0.033 W/mK. It can be used in conjunction with any type of insulation and is available in rolls of 18m² (1000mm width) in a 10mm thickness.



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 13th May 2015 and is valid until 13th May 2019.

Issue Dated 10th July 2018

Scope of Registration

PermaFol is the UK product name of Skytech manufactured by WINCO technologies in France. The product has been tested for Winco Technology, by CSTB Grenoble, under the Process thermal resistance in accordance with DIN EN 16012. It has also been tested under NF EN 13501 – 1 with regard to classification using data from reaction to fire test. The product carries a CE mark and declaration of performance in compliance with EN 13859-1 : 2005.

PermaFol can be used with any type of roof cover (metal, tiles, slates) for new and refurbishment projects. Because of its fire properties, PermaFol can also be used to upgrade fire performance of roofs in fire exposed areas.

The product is fixed using corrosion-resistant staples or nails

The product should be used in a prescribed manner and location as indicated by the manufacturer and installed according to their instructions and manuals.

The product should be used in conjunction with other insulation materials to achieve the required thermal properties.

To ensure maximum thermal efficiency, it is recommended to leave a 20mm minimum air gap, either side of PermaFol between the product and other parts of the structure.

Joints should be overlapped by at least 100mm and sealed with the recommended 100mm REFLEXBOND aluminium tape. Overlap may require increasing for shallow exposed roof pitches or high altitude (900m) installations.

Conditions of Certificate

PermaFol is highly reflective. When installing it outside, you should wear sunglasses to protect your eyes. The PermaFol face with the black line (tissue face aspect) should be oriented towards the exterior. The fire rating Euroclass A2-s1, d0 can only be guaranteed with the use of REFLEXBOND aluminium tape. The REFLEXBOND tape must be applied on a dry and clean surface (without dust, oil, grease). It is very important to apply sufficient pressure on the tape and to apply REFLEXBOND when the temperature exceeds 5°C. PermaFol should be installed with a maximum distance between rafters of 900mm. In order to prevent oxidation, do not install PermaFol in direct contact with copper, brass or lead.

Because PermaFol is highly reflective; the air gap between the roof cover and the roof membrane should be at least 38mm for roof spans shorter or equal to 8m. The air gap located under PermaFol (inside facing) should not be ventilated. For effective thermal performance it should be at least 20mm between existing/ new insulation and PermaFol.

The U-value of the elements will depend on the thickness of additional insulation used, the extent and arrangement of timber bridging and the insulation value of other components/ layers details of which can be found in manufacturer's literature.

The products should be used in a prescribed manner and location as indicated by the manufacturer and installed according to their instructions and manuals.

PermaFol is a non-loadbearing product. It will resist normal loads associated with installation and use.

PermaFol can be fixed directly to a chimney, fire or any source of ignition. However care should be taken with any associated insulation materials which may require separation from a chimney with a fire resistant material.

For Scotland purposes:

That the specifications and materials referred to have been assessed and approved in accordance with the Building (Scotland) Regulations 2004 and in accordance with the supporting guidance in the Domestic Technical Handbooks which came into force with effect from 1 October 2013.

That where reference is made on a plan or specification document to any Code of Practice, British or European Standard or manufacturer's instruction it shall be construed as a reference to such publication in the form in which it is in force at the date of this registered detail.

That the materials specified shall not be changed without first gaining approval so to do. Failure to do so will invalidate the registered detail.

This registered detail should not be regarded as a formal approval under the building warrant process prescribed by the Building (Scotland) Act 2003 enacted from 1 May 2005

That this Registered Detail shall contribute to compliance with relevant Mandatory Standards specified under the Building (Scotland) Regulations 2004 as amended when read with the Limitations of Use Section to this Registered Detail.

LABC consider that, PermaFol 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 products are acceptable.
AD B	Fire Safety
Note:	Subject to limitations detailed in Conditions section.
AD C	Site preparation and resistance to contaminants and moisture
Note:	Subject to limitations detailed in Conditions section.
AD L1B	Conservation of fuel and power
Note:	The thermal insulation performance of this system should be considered in the context of the contribution made to the overall performance.



The Building Regulations 2010 (as amended) England

AD L1A	Conservation of fuel and power
Note:	The thermal insulation performance of this system should be considered in the context of the contribution made to the overall performance.



The Building Regulations 2010 (as amended) Wales

AD L1A	Conservation of fuel and power
Note:	The thermal insulation performance of this system should be considered in the context of the contribution made to the overall performance.



The Building (Scotland) Regulations 2004 (as amended)

Technical Handbooks Domestic and Non-Domestic

Regulation 8: Durability, workmanship and fitness of materials
Standard 0.8.5 Ways of establishing the fitness of materials

Regulation 9: Building standards applicable to construction

Note: Construction shall be carried out so that the work complies with the applicable requirements of schedule 5.

Mandatory

Standard 2.5: Internal linings

2.5.1: Internal linings

Annex 2B

(Domestic): Reaction to fire

Annex 2E

(Non-Domestic): Reaction to fire

Mandatory

Standard 3.10: Precipitation

3.10.1: Precipitation

3.10.7: Roof constructions (flat)

Mandatory

Standard 3.15: Condensation

3.15.3: Control of condensation in roofs

Mandatory

Standard 6.2: Building insulation envelope

6.2.1: Maximum U-values for new buildings

Note: The product will contribute to the overall thermal performance of a roof but must be considered as part of the entire build up when assessing a U value.

Non-Regulatory Information



LABC Warranty

The use of the PermaFol 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

Laboratoire De Trappes Dossier M060848 – Document DE/1 15 September 2011

Laboratoire De Trappes Dossier M060848 – Document DE/3 15 September 2011

Laboratoire De Trappes Dossier M060848 – Document DE/5 01 December 2011

EN 13501-1 Fire Classification of construction products and Building Elements – Part 1: Classification using data from reaction to Fire Tests 2007

CE Declaration of Performance – 140612 – CSTB 0679

Determination of Thermal Resistance R A insulation process to EN 16012 demonstrated through Test No. DIR/HTO 2013-267-FS/LS and Report N°EMI 13/260045328-1

PermaFol Technical Guidance Literature

PermaFol Literature

Certificate of Notified Body for testing products – Regulation (EU) No 305/2011

Contact Information

Permavent Limited
11 Cumberland Drive
Weymouth
Dorset
DT4 9TB
Tel: 01305 766703
Email: post@permavent.co.uk
Website: www.permavent.co.uk