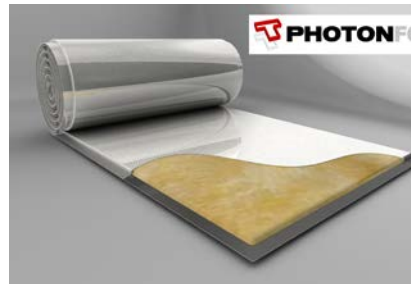


This certificate is valid for Building Regulations & associated technical guidance in force on the date of registration and for the regulations in the countries indicated

Thermic Technology Ltd – PhotonFoil-A1

Description of Product

PhotonFoil-A1 is a lightweight flexible multi foil which is a vapour control layer and air leakage barrier. It is constructed from a 33mm core of high performance mineral wool encased in very low emissivity outer layers.



Key Factors Assessed

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

Validity

This certificate was first issued on 30th January 2020 and is valid until 30th January 2021.

Issue Dated 30th January 2020

Scope of Registration

PhotonFoil-A1 is a lightweight flexible multi foil which is a vapour control layer and air leakage barrier. It is constructed from a 33mm core of high performance mineral wool encased in very low emissivity outer layers.

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.

It is critical that a minimum 20mm air-space is retained on either side of the product.

Insulation Product Type	1	
Test Method	BS EN 13162:2012	
Thermal resistance ($\lambda_{90/90}$)	0.034	W/m/k
Emissivity	0.05	
Water vapour resistance	4000	MNs/gm
Fire performance	Class A1	
Product Thickness	33	mm
Core RD value (thermal resistance)	0.97	M2K/W
Core RD value with 1 air spaces	1.60	M2K/W
Core RD value with 2 air spaces	2.30	M2K/W
Air space thickness	≥ 13	mm
Direction of heat flow when tested	Taken as horizontal	
Width	1.2	m
Weight	1202	g/m ²
Roll length	10	m

Conditions of Certificate

PhotonFoil-A1 has been tested to European Classification A1 and can be used in the external walls of buildings, including relevant buildings, as defined in Regulation 7 (4). Care needs to be taken to ensure that other materials used in the external wall system along with PhotonFoil-A1, apart from those excluded by virtue of Regulation 7 (3), also achieve the necessary classification/rating. For more information on the changes to Regulation 7 please click here -

https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/795931/AD_B_Apr2019_amend.pdf

Use on warm side of structure only to avoid condensation risks as shown on individual details.

Installation to be in strict accordance with manufacturers guides and recommendations and supported by relevant U-value calculations incorporating material thermal properties as declared.

LABC consider that, PhotonFoil-A1, 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 subject to the Conditions of Certificate.
AD B	Fire Safety
Note:	Subject to limitations detailed in Conditions of Certificate.
AD C	Site preparation and resistance to contaminants and moisture
Note:	Subject to limitations detailed in Conditions of Certificate.
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 of the roof or wall structure.



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 of the roof or wall structure.



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 of the roof or wall structure.



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 PhotonFoil-A1 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

BRE Global Classification Report Number: Q100799-1003 Issue 1 Dated 20th June 2019

CfA BS EN ISO 9001:2015 Certificate Number: 14/4448 Dated 9th July 2018

CFR_0.16_400_38_G Cold deck flat roof with PhotonFoil below joists and additional insulation between joists

CFR_0.16_400_38_P Cold deck flat roof with PhotonFoil below joists and additional insulation between joists

CFR_0.16_400_47_G Cold deck flat roof with PhotonFoil below joists and additional insulation between joists

CFR_0.16_400_47_P Cold deck flat roof with PhotonFoil below joists and additional insulation between joists

CFR_0.16_600_38_G Cold deck flat roof with PhotonFoil below joists and additional insulation between joists

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CFR_0.18_600_47_G Cold deck flat roof with PhotonFoil below joists and additional insulation between joists

CFR_0.18_600_47_P Cold deck flat roof with PhotonFoil below joists and additional insulation between joists

RUN_0.16_400_38_G Pitched roof with PhotonFoil below rafters and additional insulation between rafters

RUN_0.16_400_38_P Pitched roof with PhotonFoil below rafters and additional insulation between rafters

RUN_0.16_400_47_G Pitched roof with PhotonFoil below rafters and additional insulation between rafters

RUN_0.16_400_47_P Pitched roof with PhotonFoil below rafters and additional insulation between rafters

RUN_0.16_600_38_G Pitched roof with PhotonFoil below rafters and additional insulation between rafters

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RUN_0.16_600_47_G Pitched roof with PhotonFoil below rafters and additional insulation between rafters

RUN_0.16_600_47_P Pitched roof with PhotonFoil below rafters and additional insulation between rafters

RUN_0.18_400_38_G Pitched roof with PhotonFoil below rafters and additional insulation between rafters

RUN_0.18_400_38_P Pitched roof with PhotonFoil below rafters and additional insulation between rafters

RUN_0.18_400_47_G Pitched roof with PhotonFoil below rafters and additional insulation between rafters

RUN_0.18_400_47_P Pitched roof with PhotonFoil below rafters and additional insulation between rafters

RUN_0.18_600_38_G Pitched roof with PhotonFoil below rafters and additional insulation between rafters

RUN_0.18_600_38_P Pitched roof with PhotonFoil below rafters and additional insulation between rafters

RUN_0.18_600_47_G Pitched roof with PhotonFoil below rafters and additional insulation between rafters

RUN_0.18_600_47_P Pitched roof with PhotonFoil below rafters and additional insulation between rafters

WDC_0.19_600_38_P Dormer cheek with tile cladding, 100mm studs at 600mm centres part filled with PIR; PhotonFoil across inside of studs

Contact Information

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