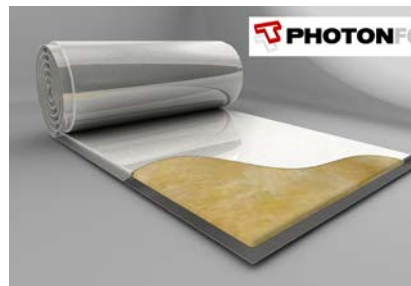


This certificate is valid for Building Regulations & associated technical guidance in force on the date of registration and for the regulations in the countries indicated

## Thermic Technology Ltd - Photon Foil V33

### Description of Product

Photon Foil V33 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 17<sup>th</sup> December 2013 and is valid until 4<sup>th</sup> April 2020.

Issue Dated 3<sup>rd</sup> April 2019

## Scope of Registration

Photon Foil V33 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	>6000	MNs/gm
Fire performance	Class E	
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	$\geq 13$	mm
Direction of heat flow when tested	Taken as horizontal	
Width	1.2	m
Weight	1200	g/m <sup>2</sup>
Roll length	10	m

## Conditions of Certificate

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.

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.

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

The insulation must not be carried over junctions between roofs and walls required to provide a minimum period of fire resistance. The continuity of fire resistance must be maintained, for example as described in Approved Document B.

LABC consider that, Photon Foil V33, 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 of the roof 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 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 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](http://www.labss.org)

## Non-Regulatory Information



### LABC Warranty

This product confirms to the Functional Requirements of the LABC Warranty Technical Manual.

## Supporting Documentation

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  
CFR\_0.16\_600\_38\_P Cold deck flat roof with PhotonFoil below joists and additional insulation between joists  
CFR\_0.16\_600\_47\_G Cold deck flat roof with PhotonFoil below joists and additional insulation between joists  
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CFR\_0.18\_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  
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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  
WDC\_0.22\_600\_38\_G Dormer cheek with tile cladding, 100mm studs at 600mm centres fully filled with glasswool; PhotonFoil across inside of studs

## Contact Information

Thermic Technology Ltd

Unit 16

Moorland Gate Business Park

Cowling Road

Chorley

PR6 9FE

Tel: 01257 241084

Email: [info@thermictechnology.co.uk](mailto:info@thermictechnology.co.uk)

Web: [www.thermictechnology.co.uk](http://www.thermictechnology.co.uk)