

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

Aluthermo Optima®

Description of Product

This is an assessment of Aluthermo Optima® which is a combined reflective and insulating multi-foil. Aluthermo Optima® is a high performance insulation system with a reduced thickness that efficiently acts on all modes of heat and noise transfer.

Aluthermo Optima® is composed of two layers of pure 30 microns thick aluminium, polished and treated against oxidation, separated by two layers of air bubbles placed in a honeycomb structure and enclosed in self-extinguishing polyethylene film.

The core of the product is a fully stable, hydrophobic and self-extinguishing polyester fibre with high sound barrier characteristics.



Key Factors Assessed

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

Validity

This certificate was first issued on 9th January 2015 and is valid until 4th April 2019

Issue Dated 3rd March 2016

Scope of Registration

This product has been assessed for use in roof and walls in accordance with the literature detailed in the certificate and the certificate itself.

This does not cover the use of the product in flat roofs.

Counter battens should be a minimum of 40mm thick.

All joints must be sealed correctly in accordance with manufacturers recommendations.

It should be used with another complimentary insulation product.

It is not to be used above rafters.

This product can be used in conjunction with Roofreflex.

Conditions of Certificate

Whilst it is claimed to be sound reducing no details have been provided of any sound resistance testing carried out.

LABC consider that, Optima System, 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 below in Conditions section.

AD C Site preparation and resistance to contaminants and moisture

Note: Subject to limitations detailed below 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

Non-Regulatory Information



LABC Warranty

The use of the Optima System 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

Fraunhofer Test Report P5-121e/2014

Fraunhofer Test Report P15-054e.1/2014

Fraunhofer Test Report HoFM-08e/2014

DIBt test report Z-23-11-1906 for polyester fibre Aluthermo website information dated 13/11/2014

Product Aluthermo Optima®

Installation Instructions covering Aluthermo Quattro

Optima Aluthermo 21mm and 7mm and Aluphonic

Together is Better

Multifoil Template for Aluthermo Optima® and e-mail from Lambert Jakobs dated 17th September 2014

Thermal calculations carried out by Melin Consultants for updated Aluthermo Optima® Timber Frame and Lightweight Block U-Values 0.18 and 0.28

Updated Timber Frame and Brickwork U-values of 0.18 and 0.28 Timber Frame, Cavity, Timber Frame u-values of 0.18 and 0.28

Updated Timber Frame no Cavity u-values of 0.18 and 0.28

Updated Flat Roof timbers 400 ctrs U- value 0.13 and 0.18 and Flat Roof Timbers 600ctrs u-value 0.3 and 0.18

Updated Slate Roof PU 400 ctrs U- value 0.13 and 0.18 and Sloping Roof Timbers 600ctrs u-value 0.3 and 0.18

Updated slate roof timbers @ 400ctrs u-value 0.13 and 0.18 and timbers @ 600ctrs u-value 0.13 and 0.16

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