

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

Spacetherm Multi Insulation

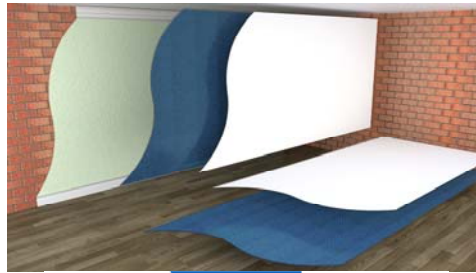
Description of Product

This is an assessment of Proctor Multi, it is a high performance thermal laminate specifically designed to be laid directly onto existing floors & walls.

Spacetherm Multi consists of Spacetherm aerogel insulation blanket bonded to a 6mm Magnesium Oxide board.

As the product can achieve similar performance to other insulation systems but at a fraction of the thickness with a K factor of 0.015W/mK the solution is ideal for use in applications where low U-values are required and room space is at a premium (such as loft conversions or other refurbishment projects). Spacetherm Multi can be installed onto walls, either over battens or directly fixed to the substrate. This same board is also suitable for fully supported flooring applications.

A U-value calculation service and Condensation Risk Analysis for projects is offered by Proctor technical services. The insulation is available in thicknesses from 10mm to 75mm. Other thicknesses can be available on request.



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 31st March 2018 and is valid until 31st March 2019

Issue Dated 31st March 2018

Scope of Registration

Spacetherm Multi is a high performance aerogel insulation blanket bonded to a 6mm Magnesium Oxide Board. The insulation is supplied in thicknesses from 10mm to 75mm. Other thicknesses can be available on request.

The product is ideal for use in applications where low U-values are required and room space is at a premium (such as loft conversions or other refurbishment projects).

When installed the insulation product will be below a 6mm magnesium oxide board which has a fire rating of Class 0 (BS 476 Parts 6&7) and Euro Class A1 - EN 13501. The aerogel insulation is fire rated as Class C-s1, d0 (EN 13501-1).

Spacetherm Multi is suitable for use on the floor and directly fixed to walls as the product is moisture resistant. The boards have a degree of vapour resistance; however the insulation is vapour permeable. There is a theoretical risk of condensation on the cold side of the Spacetherm once installed however this is minimal and not detrimental to the wall structure.

Supplied overall thicknesses start at 10mm and come in two sizes: 1200mm x 600mm or 2400mm x 1200mm.

U-value – Performance Ready Reckoner for Walls

Base Wall Construction	Spacetherm Multi (Insulation thickness)	U-value (W/m²K)
220mm Brick (no cavity) 13mm Plaster	10	0.77
	15	0.62
	20	0.52
	25	0.45
	30	0.40
	35	0.36
	40	0.32
	45	0.29
	50	0.27
	55	0.25
Base Wall Performance 2.12 W/ m²K	60	0.23
	65	0.22
	70	0.21
Spacetherm Multi on 25mm battens	75	0.19

U-value – Performance Ready Reckoner for Floors

Base Floor Construction	Spacetherm Multi (Insulation thickness)	U-value (W/m²K)
125mm Concrete Slab P/A Ratio = 1 Base Floor Performance = 0.99 W/ m²K	10	0.57
	15	0.48
	20	0.41
	25	0.36
	30	0.32
	35	0.29
	40	0.27

Base Floor Construction	Spacetherm Multi (Insulation thickness)	U-value (W/m²K)
125mm Concrete Slab P/A Ratio = 0.75 Base Floor Performance = 0.85 W/ m²K	10	0.52
	15	0.44
	20	0.38
	25	0.34
	30	0.30
	35	0.27
	40	0.25

Base Floor Construction	Spacetherm Multi (Insulation thickness)	U-value (W/m²K)
125mm Concrete Slab P/A Ratio = 5 Base Floor Performance = 0.67 W/ m²K	10	0.44
	15	0.38
	20	0.34
	25	0.30
	30	0.27
	35	0.25
	40	0.23

Base Floor Construction	Spacetherm Multi (Insulation thickness)	U-value (W/m ² K)
125mm Concrete Slab P/A Ratio = 25 Base Floor Performance = 0.42 W/ m²K	10	0.31
	15	0.27
	20	0.25
	25	0.23
	30	0.21
	35	0.20
	40	0.18

Conditions of Certificate

The product must be installed and used in accordance with the manufacturer's instructions and ETA certificate 11/0471.

LABC and LABSS consider that, Spacetherm Multi Insulation 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 product is acceptable.
AD A	Loading
Note:	The product is acceptable as per the Scope of Registration.
AD B	Fire Safety
Note:	The product is acceptable as per the Scope of Registration.
AD C	Resistance to Moisture
Note:	The product is acceptable as per the Scope of Registration.
AD F	Ventilation
Note:	The product is acceptable.



The Building Regulations 2010 (as amended) England

None presently.



The Building Regulations 2010 (as amended) Wales

None presently.



The Building (Scotland) Regulations 2004 (as amended)

Technical Handbooks - Domestic

Regulation 8	Durability, workmanship and fitness of materials
0.8.5:	Ways of establishing the fitness of materials
Note:	The product is acceptable as referenced by ETA-11/0471 dated 06/06/2017
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 3.10	Precipitation
Note:	The product is acceptable provided it is constructed in accordance with the manufacturer's details.
Mandatory	
Standard 3.15	Condensation
Note:	The product is acceptable provided it is constructed in accordance with the manufacturer's details.
Mandatory	
Standard 6.2	Building insulation envelope
Note:	The product will contribute to achieving the required U-value provided it is constructed in accordance with the manufacturer's details.

Non-Regulatory Information



LABC Warranty

The use of Spacetherm Multi Insulation 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

Spacetherm Aerogel Insulation Brochure June 2017
European Technical Approval Certificate ETA – 11/0471

For Scotland purposes:

Spaceloft European Technical Assessment ETA-11/0471
Spacetherm Data Sheet
Spacetherm WL Brochure
Spacetherm Aerogel Insulation Brochure (for building & construction)

Contact Information

A. Proctor Group Ltd

The Haugh

Blairgowrie

PH10 7ER

Tel: 01250 872261

Email: contact@proctorgroup.com

Web: www.proctorgroup.com