Certificate No: EWS807G

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 A2 Multi with Spacetherm Slentex A2 Insulation

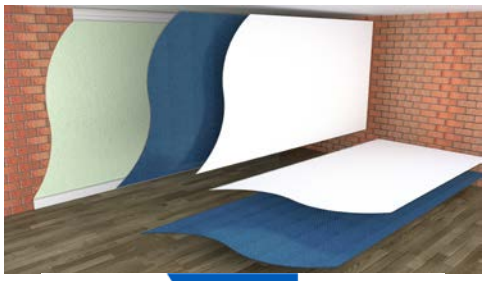
Description of Product

This is an assessment of Proctor Spacetherm A2 Multi, it is a high performance thermal laminate specifically designed to be laid directly onto existing floors & walls.

Spacetherm A2 Multi consists of Spacetherm Slentex A2, a fire resistant 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 0.019W/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 A2 Multi can be installed onto walls, either over battens or steel studs 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 of 10mm increments.



Proctor Group

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 9th April 2019 and is valid until 31st March 2022

Issue Dated 9th April 2019

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Scope of Registration

Spacetherm A2 Multi is a fire resistant high performance aerogel insulation blanket bonded to a 6mm Magnesium Oxide Board. The insulation is supplied in thicknesses of 10mm increments.

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 Spacetherm Slentex insulation is fire rated as Class A2-s1,d0 (EN 13501-1).

Spacetherm A2 Multi is suitable for use on the floor and 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/m^2K)
220mm Brick (no cavity)	16	0.84
13mm Plaster	26	0.59
	36	0.46
Base Wall Performance	46	0.37
2.12 W/ m^2K	56	0.31
	66	0.27
Spacetherm A2 Multi on	76	0.24
25mm battens	86	0.22

U-value – Performance Ready Reckoner for Floors

Base Floor Construction	Spacetherm Multi (Insulation thickness)	U-value (W/m^{2}K)
125mm Concrete Slab **P/A Ratio = 1** **Base Floor Performance =** **0.99 W/ m^{2}K**	16	0.63
	26	0.46
	36	0.37

Base Floor Construction	Spacetherm Multi (Insulation thickness)	U-value (W/m^{2}K)
125mm Concrete Slab **P/A Ratio = 0.75** **Base Floor Performance =** **0.85 W/ m^{2}K**	16	0.56
	26	0.43
	36	0.35

Base Floor Construction	Spacetherm Multi (Insulation thickness)	U-value (W/m^{2}K)
125mm Concrete Slab **P/A Ratio = 0.5** **Base Floor Performance =** **0.67 W/ m^{2}K**	16	0.47
	26	0.37
	36	0.31

Base Floor Construction	Spacetherm Multi (Insulation thickness)	U-value (W/m^{2}K)
125mm Concrete Slab **P/A Ratio = 0.25** **Base Floor Performance =** **0.42 W/ m^{2}K**	16	0.32
	26	0.27
	36	0.23

Conditions of Certificate

The product must be installed and used in accordance with the manufacturer's instructions and MFPA Leipzig GmbH Classification report KB3.1/17-312-2.

For Scotland purposes:
The specifications and materials referred to have been assessed 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 July 2017.

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.

The materials specified shall be for purposes of this Registered Detail and should not be changed without first gaining approval so to do from Local Authority Building Standards Scotland [LABSS]. 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.

This Registered Detail shall contribute to compliance with relevant Mandatory Standards specified under the Building (Scotland) Regulations 2004 as amended when read with the scope, conditions and regulations sections to this Registered Detail.

Regulations

LABC and LABSS consider that, Spacetherm A2 Multi 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 MFPA Leipzig GmbH Classification report KB3.1/17-312-2
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 A2 Multi 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
Spacetherm Aerogel Insulation Brochure June 2017
MFPA Leipzig GmbH Classification report KB3.1/17-312-2
Technical Data Sheet SLENTEX 100/1 High Performance Insulation Material Version 01/red-Lölsberg Dated 20.04.2018

For Scotland purposes:
MFPA Leipzig GmbH Classification report KB3.1/17-312-2
Spacetherm Data Sheet
Spacetherm WL Brochure
Spacetherm Aerogel Insulation Brochure (for building & construction)

Contact Information

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