

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 Wallboard with Spacetherm Slentex A2 Insulation

### Description of Product

This is an assessment of Proctor Spacetherm A2 Wallboard which is a high performance thermal laminate which is specifically designed to be fixed to a wall or a ceiling with timber battens or metal studs.

It consists of Spacetherm Slentex A2, a fire resistant Spacetherm Aerogel insulation blanket bonded to plasterboard. It is ideal for use in applications where low U-values are required but space is at a premium as it has a thermal conductivity of 0.019 W/mK.

The insulation blanket combines a silica aerogel with a glass fibre matrix, the material is breathable and therefore it is also possible to directly fix the laminates to certain existing wall substrates; however, please check with A. Proctor Group Ltd.

For thicknesses and U-value calculations, Proctor technical services offer a U-value calculation service and condensation risk analysis service.



### 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 9<sup>th</sup> April 2019 and is valid until 31<sup>st</sup> March 2022

Issue Dated 9<sup>th</sup> April 2019

## Scope of Registration

Spacetherm A2 Wallboard is supplied with foil faced plasterboard as standard to reduce condensation; however standard plasterboard is also available.

Spacetherm A2 Wallboard is a fire resistant high performance thermal insulation blanket bonded to 12.5mm plasterboard that comes in thicknesses from of 22.5mm to 92.5mm. Other thicknesses can be available by request.

It is designed to be fixed to timber battens or metal rails which are fixed to the substrate wall, however as the product is breathable, direct fixing is possible but checks need to be made with A. Proctor Group Ltd.

The product when installed is protected from the effects of fire under a protective plaster board face which has a rating of A2,s1,d0. The aerogel insulation is rated as Class A2-s1,d0 (EN 13501-1).

Proctor technical services offer a U-value calculation service for thickness specifications along with condensation risk analysis.

Spacetherm A2 Wallboard is supplied with foil faced plasterboard as standard to reduce condensation; however standard plasterboard is also available. It has 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.

The product is ideal for maximising internal room dimensions and for insulating hard to treat solid walls where increased fire resistance is required.

The boards are supplied in panel sizes 2400mm x 1200mm and the plasterboard thickness is 12.5mm.

### U-value – Performance Ready Reckoner

Base Wall Construction	Spacetherm A2 Wallboard (overall thickness)	U-value (W/m <sup>2</sup> K)
220mm Brick (no cavity) 13mm Plaster	22.5	0.82
	32.5	0.58
Base Wall Construction 2.12 W/m <sup>2</sup> K	42.5	0.45
	52.5	0.37
	62.5	0.31
Spacetherm A2 Wallboard on 25mm battens	72.5	0.27
	82.5	0.24
	92.5	0.22

For Scotland purposes:

Spacetherm A2 Wallboard is a high performance thermal insulation blanket bonded to 12.5mm plasterboard. The insulation is supplied in various thicknesses of 10mm increments.

Spacetherm A2 Wallboard is designed to be fixed to either timber battens or metal rails which are fixed to the substrate wall, however the product is breathable so a direct fix is possible but checks need to be made with the installation guide.

## Conditions of Certificate

Spacetherm A2 Wallboard should be fixed using a timber batten or steel frame system; however direct fixing to the wall is possible if checks are made for suitability in the current installation guide and/or direct with the manufacturer.

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.



LABC and LABSS consider that, Spacetherm A2 Wallboard 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 Wallboard 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](mailto: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 Aerogel Insulation Brochure (for building & construction)

## Contact Information

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