

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 Wallboard Insulation

Description of Product

This is an assessment of Proctor Spacetherm 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 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 0.015 W/mK.

The insulation blanket combines a silica aerogel with a 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.

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



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 2022

Issue Dated 21st March 2019

Scope of Registration

Spacetherm Wallboard is a 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 C-s1, d0 (EN 13501-1).

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

Spacetherm 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.

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 Wallboard (overall thickness)	U-value (W/m ² K)
220mm Brick (no cavity) 13mm Plaster Base Wall Performance 2.12 W/m²K Spacetherm Wallboard on 25mm battens	22.5	0.74
	27.5	0.6
	32.5	0.5
	37.5	0.44
	42.5	0.38
	47.5	0.34
	52.5	0.31
	57.5	0.28
	62.5	0.26
	67.5	0.24
	72.5	0.23
	77.5	0.21
	82.5	0.20
	87.5	0.19
	92.5	0.18

For Scotland purposes:

Spacetherm Wallboard is a high performance thermal insulation blanket bonded to 12.5mm plasterboard. The insulation is supplied in various thicknesses of 5mm increments.

Spacetherm 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 Wallboard should be fixed using a timber batten 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.



LABC and LABSS consider that, Spacetherm Wallboard 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 Wallboard 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

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