

Certificate No: EWS807E



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 Directfix Insulation

Description of Product

This is an assessment of Proctor Spacetherm Directfix wallboard, it is a high-performance laminate specifically designed to be installed directly onto existing solid walls.

Spacetherm Directfix is an aerogel insulation blanket bonded to a 6mm plywood board and 12.5mm plasterboard laminate. It is supplied in 2400mm x 1200mm sized boards and the boards can be supplied incorporating various thicknesses of insulation.

As the product can achieve similar thermal 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.

A U-value calculation and condensation risk analysis service for projects is offered by Proctor technical services.

The manufacturer of the insulation has taken the responsibility to CE mark the insulation against ETA 11/0471.











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 Directfix is a high performance aerogel insulation blanket bonded to a 6mm plywood board and 12.5mm plasterboard laminate. This layered construction allows the direct fixing to the wall using shot fired nails, which reduces the risk of the material snagging on drill bits.

It is supplied in 2400mm x 1200mm sized boards and the boards can be supplied incorporating 28.5mm to 98.5mm thicknesses of insulation.

The product is ideal for use in applications where low U-values are required and room space is at a premium.

When installed the insulation product will be below a 12.5mm plaster board which has a fire rating of: A2,s1d0 the 6mm plywood has a rating of D-s2, d0. The aerogel insulation is fire rated as Class C-s1, d0 (EN 13501-1).

Spacetherm Directfix 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. Condensation risk analysis calculations can also be provided at request by the Proctor technical team.

U-value - Performance Ready Reckoner

Base Wall Construction	Spacetherm Directfix	U-value (W/m ² K)	
	(overall thickness)		
	28.5	0.82	
	33.5	0.65	
	38.5	0.54	
	43.5	0.46	
	48.5	0.4	
220mm Brick (no cavity)	53.5	0.36	
13mm Plaster	58.5	0.32	
	63.5	0.30	
Base Wall Performance	68.5	0.27	
2.12 W/ m ² K	73.5	0.25	
	78.5	0.23	
Spacetherm Directfix	83.5	0.22	
	88.5	0.20	
	93.5	0.19	
	98.5	0.18	

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Spacetherm Directfix is a high performance laminate which is specifically designed to be fixed directly to the wall. It consists of Spacetherm Aerogel insulation blanket bonded to plasterboard, with an additional pre-bonded plywood reinforcement to the plasterboard.

Ideal for use in applications where low U-values are required but space is at a premium.

Spacetherm Directfix is supplied with foil faced plasterboard as standard to reduce condensation. Plain plasterboard is available on request.

Spacetherm Directfix lining boards can achieve similar performance to traditional plasterboard laminates, but at a fraction of the thickness, allowing specifiers greater flexibility and higher performance for refurbishment projects.

Due to Spacetherm's unique hydrophobic qualities it is also possible to directly fix Spacetherm laminates to certain existing wall substrates (refer to installation guide for details).

The boards are supplied in panel sizes 2400mm x 1200mm, the plasterboard thickness is 12.5mm with plywood thickness of 6mm. The Aerogel insulation is available in a variety of thicknesses.

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 Directfix 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.

Regulations

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 Directfix 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 Technic

Spaceloft European Technical Assessment ETA-11/0471

Spacetherm Data Sheet

Spacetherm WL Brochure

Spacetherm Aerogel Insulation Brochure (for building & construction)

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