



# Certificate No: EWS1139



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

## Wraptherm

### Description of Product

This is an assessment of Proctor Wraptherm which is a wall membrane composite aimed at improving airtightness whilst reducing the effects of thermal bridging which is particularly useful in refurbishment projects.

The high-performance membrane composite is self-adhesive and was developed for use in the refurbishment of existing buildings to enhance the thermal and airtightness performance of the building.

When applied to the internal face of the existing façade it provides a vapour permeable yet airtight layer, fully self-adhered to the substrate beneath with the added 10mm thick layer of Spacetherm insulation.

Once the membrane is applied framing can be installed. The Wraptherm layer assists to reduce the thermal bridging caused by framing as a continuous layer of insulation is formed directly upon the wall fabric.

Where required, additional thermal insulation can be included within the frame to meet the specific U-value requirements of the project.



### 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 30<sup>th</sup> September 2019 and is valid until 30<sup>th</sup> September 2020

Issue Dated 30<sup>th</sup> September 2019

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## Scope of Registration

The membrane is applied with offset joints which allows for a completely robust sealing of all of the joints within the panel thereby ensuring the continuity, integrity and robustness of the airtight layer.

Wraptherm consists of a 10mm "Spacetherm" insulation blanket that is bonded to the face of Proctor "Wraptite" which is a vapour permeable, self-adhesive airtight membrane.

The base Wraptite layer is an externally applied fully adhered vapour permeable weather and air resistant membrane. It consists of a triple layer polypropylene micro-porous film laminate, with a proprietary acrylic moisture vapour permeable adhesive and silicone-coated PET release liner. It bonds easily to multiple substrates and a primer is not required.

Substrate condition is critical to the performance of any self-adhered therefore the surfaces must be clean, dry and free from all bond-breaking contaminants, sharp protrusions or other matter that may hinder adhesion to the substrate.

Any loose dust or dirt from the substrate should be cleared by wiping with a clean dry cloth or brush. Any damaged structural wall components should also be removed and replaced.

Building design requirements should be considered prior to application of the product to minimise waste. Penetrations and openings should be correctly detailed to ensure a weather and air tight installation.

The product packaging can function as a dispenser and the product is easily cut to the desired lengths and it can be installed in either a vertical or horizontal orientation.

A hand roller and stiff brush should be used on the installation to ensure a continuous and effective bond with the substrate, failure to roller the membrane effectively may result in poor adhesion.

Any air pockets (bubbles) that appear should be rolled over to ensuring a proper bond to the substrate is achieved.

Joints should always be formed with an overlap, with the upper course over lower course, installation around penetrations such as windows and doors must be installed in the correct sequence to ensure an overlapping "shingled" result.

All horizontal and vertical overlaps must be a minimum of 75mm, the vertical overlaps should be staggered from floor-to-floor or separated by a horizontally applied Wraptite strip and the internal and external vertical corners should have a minimum overlap of 150mm.

When applying the Wraptite strip the surfaces must be clean and dry, the tape should be cut to length before removing the release liner. Sharp scissors are the best option for this to ensure a clean cut. The tape should be well rolled onto the substrate with particular attention to the sealing.

The key Wraptherm features are:

- Single product airtightness and thermal bridging solution
- Ideal for refurbishment and façade retention projects
- Water resistant yet vapour permeable membrane
- Airtightness performance
- Reduces thermal bridging
- Continuous airtightness seal
- Tested low vapour resistance

Physical Properties	Result
Coverage	2400mm x 1200mm or 1200mm x 1200mm
Nominal Thickness	11.5mm
Weight	2.40kg/m <sup>2</sup> or 1.2 kg/m <sup>2</sup>
Water Vapour Resistance Sd	0.101m (BS EN 12086)
Water Vapour Diffusion $\mu$	8.806 (BS EN 12086)
Thermal Resistance	0.667 m <sup>2</sup> K/W (Insulation - membrane negligible)

## Conditions of Certificate

The product must be bonded to a clean, bare, structurally sound base that is dry and free from all bond-breaking contaminants, sharp protrusions or other matter that may hinder adhesion to the substrate. Any loose dust or dirt can be cleaned from the substrate using a clean, dry cloth/brush.

Wraptherm is supplied to site on a pallet, shrink-wrapped with edge guards. It should be stored flat, in a dry place and kept in packaging until ready to use. Use 2 persons to lift due to weight of boards. An installation guide is included with each pallet. Reference should also be made to Spacetherm Essentials Data Sheet.

### 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 come into force with effect from 1 October 2019.

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.

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LABC and LABSS consider that, Wraptherm 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 as per the Scope of Registration and Conditions of Certificate.
AD C	Resistance to Moisture
Note:	The product is acceptable as per the Scope of Registration.
AD L	Conservation of Fuel and Power
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 and Non-Domestic

Regulation 8	Durability, workmanship and fitness of materials
0.8.5:	Ways of establishing the fitness of materials
Note:	Spaceloft is covered by European technical Assessment ETA-11/0471 dated 06/06/2017 Wraptite is covered by BBA Certificate 15/5274, Second issue dated 23/04/2018. The product can contribute to a construction satisfying Regulation 8.
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 3.15

##### Note:

#### Condensation

The system is acceptable provided it is constructed in accordance with the manufacturer's details and installed by an accredited contractor. The system will predominantly be used to reduce cold bridging. As Wraptherm is considered to be vapour neutral there should be minimal impact on the movement of moisture within the wall construction but a condensation risk analysis for the complete external wall element should be provided to confirm compliance.

### Mandatory

#### Standard 6.2

##### Note:

#### Building insulation envelope

The system will contribute to the required U-value provided it is constructed in accordance with the manufacturer's details and by an accredited contractor.

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## Non-Regulatory Information



### LABC Warranty

The use of Wraptherm 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 Slentex A2 Data Sheet 23.04.2019

Wraptherm Datasheet Feb 2019

Wraptite Installation Guide

### For Scotland purposes:

Wraptherm Installation Guide

Wraptherm Thermal Insulation Data Sheet

Wraptherm BBA Test Report 63882

Spacetherm Essentials Thermal Insulation Data Sheet

Spacetherm Brochure

Spacetherm Wallboard Insulation EWS807B

Spacetherm Multi Insulation EWS807C

Spacetherm Wall-Liner (WL) Insulation EWS807D

Spacetherm Direct Fix Insulation EWS807E

Wraptite Brochure

Wraptite Breather Membrane BBA Certificate 15/5274

Wraptite SA Breather Membrane LABC Warranty P/0006

Spaceloft European Data Sheet

Spaceloft European Technical Assessment ETA-11/0471

## Contact Information

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