

WRAPTHERM®

Wraptherm

Product specification to be Wraptherm by The A Proctor Group, Blairgowrie

Manufacturer

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Detailed Description

Thermal and airtight, vapour permeable composite to tackle cold bridging and airtightness to be used shall be Wraptherm supplied by The A Proctor Group, Blairgowrie.

Wraptherm is a composite comprising 10mm Spacetherm® Insulation blanket bonded to the face of Wraptite® vapour permeable, airtight self-adhesive membrane. Wraptherm is supplied in sheet format for use on walls behind steel or timber framing.

Product

Product performance specification as follows:

Thickness

Nominal thickness 11.5mm

Sheet Size

Coverage 2400 x 1200mm (2450 x 1250mm delivered size) or 1200 x 1200mm (1250 x 1250mm delivered)

Material

Fibre reinforced silica Aerogel adhesively bonded to a triple layer polypropylene micro-porous film laminate, with a proprietary acrylic moisture vapour permeable adhesive and silicone-coated PET release liner.

Certification

Spacetherm component – [ETA-11/0471](#) details available from The A Proctor Group

Wraptite component – [15/5274 Product Sheet 2](#) – Wraptite breather membrane for use in wall and floor applications.

Technical Properties

Spacetherm Component

- Thermal Conductivity: to be no greater than 0.015W/mK when tested to EN12667
- Water vapour permeability: to be no greater than $\mu = 5.0$ when tested to EN12086
- Reaction to Fire: to be no worse than Class C - s1, d0 when tested to EN13501
- Surface Burning Characteristics: should be no worse than Flame Spread Index ≤ 5 Smoke Development Index = 20 when tested to ASTM E84
- Density: to be no less than 150 kg/m³
- Maximum Operating Temperature: 125°C
- Short term water absorption by partial immersion: to be no greater than $W_p \leq 0.01$ kg/m² when tested to EN1609
- Dimensional stability: length, width and thickness all to be no less than 1% when tested to EN1604 48h@70°C

Wraptite Component

- Base weight to be no less than 292g/m²
- Water vapour permeability: to be no greater than $S_d = 0.039$ m when tested to EN 12572 Method C
- Water vapour transmission: to be no less than 893 g/m²/24hrs when tested to BS 3177
- Resistance to Penetration of Air should be no more than 0.01 m³/m².h.50Pa when tested to EN 12114

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- Reaction to Fire: to be no worse than Class B-s1,d0 when tested to EN 11925-2 (on Class A1 or A2-s1,d0 substrate)
- Water Penetration: to be no less than Class W1, aged and unaged, when tested to EN 1928 Method A
- Peel adhesion: to be equal or greater than 5.01 N/10mm when tested to EN 1939
- Tensile Strength: to be no less than MD 417 N; CD 252 N when tested to EN 12311-1
- Tear Resistance: to be no less than MD 412 N; CD 286 N when tested to EN 12310-1
- Dimensional Stability: to be no more than MD +0.3%; CD +0.1% when tested to EN 1107-2
- Installation Temperature: -10°C to +60°C
- Service Temperature: -40°C to +100°C

Wraptherm is a composite comprising 10mm Spacetherm Insulation blanket bonded to the face of Wraptite vapour permeable, airtight self-adhesive membrane. Use of Wraptherm provides improved airtightness levels combined with a reduction in thermal bridging. Wraptherm was developed for use in the refurbishment of existing buildings where there was a requirement to enhance both the thermal and airtightness performance of the building. Wraptherm can be applied to the internal face of the existing façade, providing a vapour neutral yet airtight layer, fully self-adhered to the substrate layer with the added benefit of a 10mm thick layer of high thermal performance Spacetherm insulation. Over this airtight/thermal composite framing can be installed with the cold bridging being reduced thanks to the Spacetherm layer. Additional thermal insulation can be included within the frame to meet the u values required for the refurbishment.

Benefits

- Single product airtightness and thermal bridging solution
- Ideal for Refurbishment and Façade Retention projects
- Leading Airtightness performance
- Reduces thermal bridging
- Continuous airtightness seal
- Tested low vapour resistance
- Water resistant yet vapour permeable membrane

Product Reference: [Wraptherm](#)
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