

Construction Membranes

Breather Membranes

Protect TF200 Thermo

Protect TF200 Thermo is a reflective, low emissivity, insulating breather membrane used externally on walls constructed in timber frame, Structural Insulated Panels (SIPS), Cross Laminated Timber (CLT) panels or steel, to ensure significant thermal benefits. Protect TF200 Thermo is CE marked and independently approved by BM TRADA, with a Q mark certification and is produced in the UK.

Breather membrane to be non-woven PP core, of triple ply construction and with a permeable, high purity, solid corrosion resistant aluminium foil layer that is micro perforated. Membrane to ensure low emissivity performance with an aged thermal resistance of 0.77m²K/W and unaged thermal resistance of 0.80 m²K/W to BS EN ISO 8990 & BS EN15976, achieved when facing into an unventilated airspace to block infra-red radiation and enhance thermal performance of airspace. Aged thermal resistance values to be used, incorporating printed logos. Product to be independently tested by National Physical Laboratories (NPL) in a typical house timber frame wall cavity and verified by BM TRADA. Water vapour transmission resistance to be 0.36MNs/g (0.071 S_d) to BS EN ISO 12572 meeting the permeability requirements recommended by TRADA and NHBC. Emissivity of the surface to BS EN 15976 should be 0.02 (unaged) and 0.03 (aged), independently tested by a European notified laboratory. The product's resistance to water penetration to BS EN 13111 should be Pass, Class W2 no leakage, both before and after ageing. Nail tear strength should be 239 (MD along roll) and 243 CD (across roll) to EN 12310-1 with mods and tensile strength should be 210 (MD along roll) and 205 (CD across roll) to BS EN 12311-1 with mods. The product should have a weight of 150g/m² and have a thickness of 0.48mm, coming in roll sizes of; 0.3m, 0.6m, 2.7m, 3.0m x 100m and 1.5m x 50m.

Membrane to be printed in blue ink to ensure low emissivity and to signpost use externally on the wall structure. To be used on the cold side of the insulation in conjunction with vapour control layer Protect VC Foil Ultra on the warm side of the insulation to further enhance the thermal performance of the wall structure, helping to achieve low U-values and meet current Building Regulations Part L in UK and Ireland. On timber frame panel construction, to be used externally, with breather membrane Protect TF InterFoil installed on either cold or warm side of the insulation and vapour control layer Protect VC Foil Ultra used on the warm side of the insulation to deliver thermal efficiency.



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Manufacturer to provide U-Value calculations and condensation risk analysis to ensure target specification is achieved using appropriate thermal bridge percentage for timber studs in accordance with BR 443:2006 Conventions for U-values (section 4.5.1 (ii)) and relevant correction level in accordance with Table F1 of BS EN ISO 6946:2017 Building components and building elements – Thermal transmittance – Calculation methods. Breather membrane to be fitted into wall in accordance with TRADA recommendations and manufacturer’s instructions.

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STA Assured Gold accredited company and associate members of the Structural Timber Association and the Modular and Portable Build Association.

Product Reference: Protect TF200 Thermo low emissivity, insulating, external breather membrane, with aged thermal resistance of 0.77m²K/W (incorporating printed logos).

Accessories

Protect range of sealing tapes to help reduce uncontrolled air leakage in all forms of building construction.

Protect Reveal Tape:

Single-sided, high-tack, durable and woven reinforced reflective tape, for dressing into awkward details without tearing. Performs the airtightness function between internal AVCL and external membrane in and around doors and window reveals.

Protect Reflective Reinforced Tape:

Single-sided, high-tack, reflective aluminium spun bond reinforced tape. Designed for sealing overlaps of timber frame membranes, air barriers and vapour control layers and for sealing around service penetrations. Can be used for internal or external applications.

Protect Reinforced Universal Tape:

Single-sided, high-tack, UV and heat stabilised spun bond reinforced tape. Designed as general purpose tape for sealing overlaps of timber frame membranes, air barriers and vapour control layers. Can be used for internal or external applications.

