

Construction Membranes

Breather Membranes

Protect TF InterFoil

Protect TF InterFoil is a reflective, low emissivity, insulating breather membrane used internally on cavity walls constructed in timber frame, to ensure significant thermal benefits when used with Protect TF200 Thermo or Thermo Extreme external breather membrane and internal vapour control layer Protect VC Foil Ultra. Protect TF InterFoil is CE marked and 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 a thermal resistance aged of $0.77\text{m}^2\text{K/W}$ to BS EN ISO 8990, achieved when facing into an unventilated airspace to block infra-red radiation and enhance thermal performance of airspace. Thermal resistance to be aged and incorporating printed logos. Water vapour transmission resistance to be 0.40MNs/g (0.08Sa) to BS EN ISO 12572 meeting the permeability requirements recommended by TRADA and NHBC. The product's resistance to water penetration to BS EN 13111 should be Class W3. Nail tear strength should be 85 (MD along roll) and 85 CD (across roll) to EN 12310-1 with mods and tensile strength should be 155 (MD along roll) and 105 (CD across roll) to BS EN 12311-1 with mods. The product should have a weight of 95g/m^2 , coming in roll sizes of; 2.4m, 1.2m x 100m.

Membrane to be printed in red ink to ensure low emissivity and to signpost use internally on the wall structure. The membrane should be used on the warm side of the insulation and in timber frame panel construction, to be used in conjunction with vapour control layer Protect VC Foil Ultra and with external breather membrane Protect T200 Thermo or Thermo Extreme 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. 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.

Manufacturer: Protect Membranes, a division of Building Product Design, 2 Brooklands Road, Sale, Cheshire, M33 3SS, United Kingdom. Tel: +44 (0)161 905 5700, Fax: +44 (0)161 905 2085. E-mail: info@protectmembranes.com Website: www.protectmembranes.com/tfinterfoil STA Assured Gold accredited company and associate members of the Structural Timber Association and the Modular and Portable Build Association.

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

Accessories

Protect Cavit-E Tray:

Purpose designed, translucent insulation spacer/support tray to create a circa 20mm air cavity within the depth of the wall stud, used in conjunction with Protect TF InterFoil, Protect VC Foil Ultra and mineral wool slab insulants to generate low emissivity performance with the membrane blocking infra-red radiation.

Protect Cavit-E Clip:

Specifically designed for use with Protect TF InterFoil and Protect VC Foil Ultra. The clips are fixed over studs or rafters holding the reflective membrane in place to create a 25mm airspace and generate low emissivity performance with the membrane blocking infra-red radiation.

Protect VC Foil Ultra:

Protect VC Foil Ultra is a reflective, low emissivity, insulating air and vapour control layer used internally on timber frame or masonry construction in walls, ceilings or floors to ensure significant thermal benefits.

Protect TF200 Thermo:

Protect TF200 Thermo is a reflective, low emissivity, insulating breather membrane used externally on timber frame, SIPS and CLT wall panels to ensure significant thermal benefits.

Protect Thermo Extreme:

Protect Thermo Extreme is a reflective, low emissivity, insulating breather membrane, with a Class W1 water tightness, used externally on timber frame, SIPS and CLT wall panels to ensure significant thermal benefits.