

TF INTERFOIL

LOW EMISSIVITY INSULATING BREATHER MEMBRANE

Protect TF InterFoil is an innovative, highly reflective insulating breather construction membrane, designed specifically for use within a timber frame wall panel to enhance its thermal performance. When installed facing into an unventilated airspace within the studs, Protect TF InterFoil effectively blocks infra-red radiation and increases the thermal performance of the airspace, and hence the overall U-value of the wall when compared to fully insulated construction.

The increasingly onerous U-value targets required by Building Regulations has meant that the industry has had to move to the more expensive, rigid, high density insulation boards to achieve compliance. However, the inclusion of Protect TF InterFoil in a typical 140mm deep timber stud section can now achieve U-values as low as 0.18W/m²K* when positioned either side of a 100mm fibrous or EPS insulation layer, offering significant savings to the fabricator and developer alike.

Thermal resistance and emissivity has been tested in accordance with BS EN ISO 8990 and BS EN 16012.

*When used in conjunction with Protect TF200 Thermo and Protect VC Foil Ultra.

BENEFITS

- Allows use of 0.032/0.035 lambda fibrous insulation to reduce cost and improve the acoustic performance of the wall.
- Enables 0.03/0.032 lambda EPS alternatives to be used within timber frame construction.
- Low emissivity reflective surface enhances the thermal performance of the wall.
- Meets the permeability requirements recommended by TRADA and NHBC to prevent interstitial condensation.
- Helps meet the more onerous Regulatory requirements.
- Corrosion and damage resistant reflective surface.
- UV and heat stabilised for long term durability.
- Unaffected by conditions found within timber frame walls.

**Thermal
resistance
R-value
0.77m²K/W**





Performance	MD	CD
Nail tear strength (N) to EN 12310-1 with mods	85	85
Tensile strength (N/50mm) to EN 12311-1 with mods	155	105
Thermal resistance (m ² K/W)	0.77	
Water vapour resistance to EN ISO 12572 (MNs/g)	0.40	
Equivalent air layer thickness	0.08	
Watertightness	W3	
Weight (g/m ²)	95	

MD = machine direction (along roll), CD = cross direction (across roll).

Specification clause
 Timber frame interlayer reflective breather membrane to be Protect TF InterFoil supplied by Protect Membranes, 2 Brooklands Road, Sale Cheshire, M33 3SS. Tel: 0161 905 5700. Fax: 0161 905 2085. Email: info@protectmembranes.com.

Interlayer membrane to be a non-woven PP core, with a permeable, high purity aluminium foil layer with a thermal resistance of 0.77m²K/W and a vapour resistance of 0.40MNs/g.

Interlayer membrane to be fitted in conjunction with Protect Cavit-E Trays at top, middle and bottom of studs when using mineral wool slabs to ensure the provision of a 20mm airspace.*

* not required if using Jablite JTWS-TF insulation.

Installation

Protect TF InterFoil is laid flat across the studs during construction of the wall and faces into a 20mm airspace. For mineral wool slab insulation this is created by the use of Protect Cavit-E Trays fitted to the studs. These maintain the cavity depth once the insulation slabs are inserted. When using Jablite JTWS-TF EPS boards, the integral ribs of the insulation will ensure that a 20mm airspace is maintained on both sides of the insulation without the need for Protect Cavit-E Trays.

Roll size

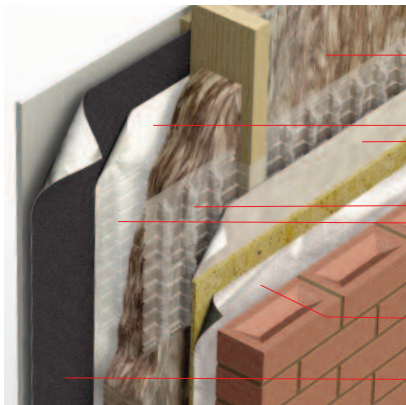
Nominal: 2.4m x 100m roll and 1.2m x 100m roll.
 Weight: 23.52kg and 11.76kg.

Protect Cavit-E Tray

The Cavit-E Tray has been designed specifically for use with Protect Reflective Technology membranes and mineral wool slab insulation. They are fixed to the top, middle and bottom of each stud before the TF InterFoil is fitted to maintain the 20mm low emissivity airspace.

Related products

Protect TF InterFoil is an integral part of the Protect Reflective Technology range and should be used in conjunction with Protect VC Foil Ultra and Protect TF200 Thermo to maximise thermal efficiency and material cost savings.



Mineral wool insulation

Mineral wool insulation slabs fitted between studs.

TF InterFoil insulating breather membranes facing into airspaces.

Cavit-E Trays fitted to both sides of the insulation to maintain minimum 20mm airspaces.

TF200 Thermo insulating breather membrane.

VC Foil Ultra insulating AVCL facing into service void.

Jablite JTWS-TF insulation

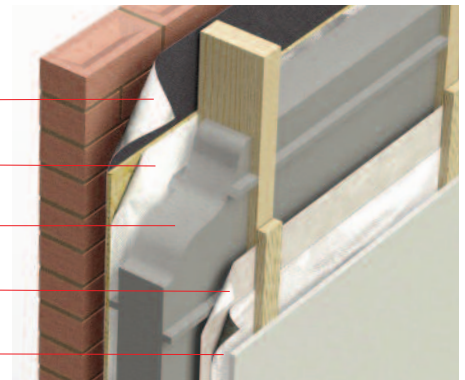
TF200 Thermo insulating breather membrane.

TF InterFoil insulating breather membrane facing into airspace.

Jablite insulation slabs with integral ribs fitted both sides between studs.

TF InterFoil insulating breather membrane facing into airspace.

VC Foil Ultra insulating AVCL facing into service void.



Stockist's stamp



PROTECT MEMBRANES

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Protect Membranes maintains a policy of continuous development and reserves the right to amend product specifications without notice.



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