



Thermo-Foil P

Thermo-Foil P is a two sided single foil for use as a heat reflecting membrane. It holds the same reflectivity and tensile properties as Thermo-Foil ES, but has micro perforations for breathability. Thermo-Foil P has an emissivity of only **0.045**, so **96.5%** of radiant heat is reflected back.

The product can be installed in any type of building where a breathable Heat Reflecting Membrane is desirable. It also allows Water Vapour Permeation.

Water Vapour Permeation

The Water Vapour Permeation (WVP) for Thermo-Foil P is certificated at 25°C, 50% RH to be 20200 g/m²/day and at 25°C, 75% RH to be 27000g/m²/day. Testing the WVP was by the gravimetric method ASTM E96-90 using a single 50cm² specimen where the even perforations were observed to be representative of the product as a whole.

Adhesive tape

Apollo's high performance acrylic adhesive tape can be used to seal the joins between adjacent sheets, around stud-work, door or window frames. Without using a variety of mastics or other tapes the structure can be effectively sealed preventing air infiltration and ensuring the building meets its mandatory air pressure test.



Installation

To act as a radiant barrier Thermo-Foil®P is installed within a structure facing at least one air space, (usually 19mm to 25mm). When used in conjunction with mineral wool, or foam insulation Thermo-Foil ES can improve the u-value of that structure by up to 18%.

Reflectivity (ASTM E903)	96.50%
Emissivity (ASTM E408)	0.045
Carbon Emissions Saved	Up to 23kg per m² /annum
Roll Size	96m x 1.25m 120m²
Nominal Thickness	145 microns
Corrosion resistant	Unique surface coating
Temperature Resistant	-50°C to +127°C
Pressure Wash Resistant	207 bar at 300mm

Thermo-Foil ES - R Values

Wall – Horizontal Heat Flow
0.67 m²KW

Floor – Downward Heat Flow
0.80 m²KW

Ceiling – Upwards Heat Flow
0.45 m²KW

Pitched Roof Upwards Heat Flow
0.51 m²KW





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