

Construction Membranes

Vapour Control Layers & Airtightness Membranes

Protect VB200 Self-adhesive Air and Vapour Control Layer (AVCL)

Protect VB200 is a multi-purpose, robust, adhesive backed double reflective air and vapour control layer (AVCL) for a wide range of applications, including flat warm roof constructions, walls, floors and ceilings when an adhesive bonding of the material to the substrate would be beneficial. When used with an unventilated airspace such as in profiled metal decking, thermal enhancement can be achieved. Protect VB200 is CE marked and produced in the UK.

Air and vapour control layer to be of five layer polymer based, glass reinforced composite aluminium foil construction, featuring an environmentally friendly and high tack acrylic based adhesive backing for a solid bond and simple installation. Vapour control layer to have a mass of 190 g/m² with a thickness of 0.2mm. Membrane to ensure low emissivity performance when used facing into an airspace with a figure of 0.57 m²K/W when faced into a wall cavity of ≥20mm (horizontal heatflow), 0.40 m²/K/W when facing a cavity in a roof of ≥13mm (vertical heatflow), and 0.99 m²/K/W when facing a ≥50mm floor cavity (downward heatflow). Emissivity of rear face of membrane, including adhesive, to be 0.45 m²/K/W when faced into trapezoid sheet voids on flat roofs. Membrane emissivity to be tested to BS EN 15976.

Water vapour resistance to be >1270 MNs/g (254 S_d) to BS EN 1931 1931 to deliver vapour control properties and help avoid condensation risk in accordance with BS 5250. The product's resistance to water penetration to BS EN 1928 with mods should be Class W1. Nail tear strength should be 244 MD (along roll) and 218 CD (across roll) to EN 12310-1 with mods and tensile strength should be 500 (MD along roll) and 480 (CD across roll) to BS EN 12311-1 with mods. Resistance to wind uplift: unrestricted use across the UK and Ireland (Zones 1-5) in accordance with BS 5534. Primer and site height dependent. (Contact Protect technical team for further clarification.)

Membrane to be printed in red ink to ensure low emissivity. For walls, to be used on the warm side of the insulation to further enhance the thermal performance of the cavity 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 installed on the warm side of the insulation with Protect TF InterFoil fitted on the warm or cold side, in conjunction with external breather membrane Protect TF200 Thermo or Protect Thermo Extreme to deliver thermal efficiency.

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. Air and vapour control layer to be fitted into wall/ceiling/floor in accordance with BS 5250, BS 9250 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: <http://www.protectmembranes.com/vb200>

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

Product Reference: Protect VB200 Self-adhesive, low emissivity insulating AVCL, with unrestricted wind uplift use (Zones 1-5)

Accessories:

Protect VB200 Tape:

Single-sided, high-tack, durable and woven reinforced 200mm reflective tape. Performs a vapour and airtightness function. Designed as a tape for sealing overlaps of timber frame membranes, air barriers and vapour control layers. Can be used for internal or external applications.

Glidevale RS22 Universal Corner:

Preformed unit which is reversible for external or internal corners. Membrane is laid into the corner and bonded to the surface with VB200 tape.

Glidevale RPS1 Pipe Seal:

Seals around service pipes which penetrate the membrane. Comes in pipe diameters of; 120mm, 140mm and 160mm.

Glidevale Multi Crease Roll (MCR):

Multi-Crease Roll is a bespoke product made specifically to the requirements of the client. Non-slip texture finish for improved mortar adhesion. Complies with BS EN 1996-2 and BS8215.