

Construction Membranes

Vapour Control Layers & Airtightness Membranes

Protect BarriAir

Protect BarriAir is an air leakage barrier with vapour control qualities used internally on timber frame or masonry construction in walls, ceilings or floors to ensure an airtight system. Protect BarriAir is CE marked and produced in the UK.

Air and vapour control layer to be multi-purpose, coated and non-woven membrane of twin ply construction with integrated sealing tapes on opposing edges of the roll to ensure that the membrane overlap is jointed and sealed by applying two layers of adhesive to one another (1.5m width only). Water vapour resistance of 95 MNs/g (19 S_d) to EN 1931 to deliver vapour control qualities and help avoid condensation risk in accordance with BS 5250. The product's resistance to water penetration should be Class W1. Nail tear strength should be 197 MD (along roll) and 208 CD (across roll) with a product weight of 100gsm. The product should be available in roll sizes of; 1.5m and 3m x 100m, with the 1.5m width featuring integrated tape to seal laps. The tensile strength should be 193 MD and 184 CD to EN 1385901 + 2 and should have a resistance to penetration of air of 0.0m³/hr/m² @50Pa. The product should feature a printed grid to allow simple alignment with timber studs or joists.

Can be used in ceilings, floors or walls. For the latter, to be installed on the warm side of the structure, adjacent to the insulation, in conjunction with external breather membrane Protect TF200 on the cold side of the insulation. 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 installed with sealed laps and to be fitted into wall/ceiling/floor in accordance with BS 5250, BS 9250 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 BarriAir air and vapour control layer, with integrated sealing tape.

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.

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.

