

## Construction Membranes

### Breather Membranes

#### Protect 5000 Façade

Protect 5000 Façade is a non-woven, UV stable, breather membrane specifically designed for external use in open jointed wall cladding applications, achieving Class W1 resistance to water penetration. STA Advice Note 18 recommends that a Class W1 membrane is used on a cavity wall with rainscreen cladding that has gaps to expose the membrane or loose fitting cavity claddings with open joints. Protect 5000 Façade is CE marked and produced in the UK.

Membrane to be a tough non-woven PP spunbond incorporating a unique durable, high purity blackened aluminium protective surface, which is bonded to the substrate and micro perforated, and is to be further protected by a waterproof vapour permeable layer. The black surface should blend unobtrusively with the structure whilst providing the required UV resistance to make it suitable to be used underneath open cladding. Each membrane overlap should be sealed vertically with a reinforced sealing tape for maximum weather tightness with integral sealing tapes on both edges. The product should also have integral tape to ensure horizontal laps are sealed.

The mass of the underlay is 200g/m<sup>2</sup>, coming in roll sizes of 1.5m x 50m. Water vapour transmission resistance: 0.43MNs/g (0.086 S<sub>d</sub>) to BS EN ISO 12572 to meet permeability requirements recommended by TRADA and NHBC. The product's resistance to water penetration to BS EN 1928 with mods should be Pass, Class W1. Nail tear strength should be 205 (MD along roll) and 242 (CD across roll) to BS EN 12310-1 with mods. The membrane should have been subjected to 5000 hours of testing to artificial UV ageing in accordance with EN 13859-2 with energy minimum of 812MJ/m<sup>2</sup> and to comply with guidance in STA Advice Note 18. Tensile strength should be 260N/50mm (MD along roll) and 215N/50mm (CD across roll) after 5000 hours of artificial ageing to BS EN 12311-1 with mods.

Membrane to be fitted to cold side of insulation to provide a primary line of protection to the whole of the external wall during the construction process and a secondary line of protection against rainwater penetration during the life of the building after the external masonry is built. The breathable membrane should minimise the risk of condensation within the structure and to allow water vapour to escape into the vented cavity.



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Product Reference: Protect 5000 Façade Wall Membrane, for open jointed cladding applications.

### Accessories

#### **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. Can be used for internal or external applications.

#### **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. Can be used for internal or external applications.

