

## Construction Membranes

### Breather Membranes

#### Protect TF200 Extreme

Protect TF200 Extreme is a water resistant breather membrane used externally on walls constructed in timber frame, Structural Insulated Panels (SIPS), Cross Laminated Timber (CLT) panels or steel. Protect TF200 Extreme is CE marked and produced in the UK. As specified in STA Advice Note 18, this membrane is designed for use on structural timber buildings which are located in very severe, exposed sites, which are known to be open to high winds with driving and persistent rain. This includes high altitude areas and westerly coastal sites in England, Ireland, Wales and Scotland, particularly cliff or sea fronting locations.

Breather membrane to be three ply construction to include a microporous film between two layers of spunbond, with an anthracite upper surface that is micro perforated and a white/grey under surface.

The membrane should be suitable for factory or site-applied applications and considered to meet or contribute to meeting the minimum requirements of the Building Regulations in the UK and Ireland.

The mass of the underlay is 100g/m<sup>2</sup>, coming in roll sizes of 3.0m x 100m. Water vapour transmission resistance to be: 0.13MNs/g (0.03 S<sub>d</sub>) to BS EN ISO 12572 to meet permeability requirements recommended by TRADA and NHBC. In order to be suitable for very severe exposure sites as per recommendations in STA Advice Note 18, the product's resistance to water penetration to BS EN 1928 with mods should be Pass, Class W1. Nail tear strength should be 104 (MD along roll) and 140 (CD across roll) to BS EN 12310-1 with mods and tensile strength should be 210 (MD along roll) and 190 (CD across roll) to BS EN 12311-1 with mods.

Breather membrane to be fitted into wall, in accordance with TRADA recommendations and manufacturer's instructions 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 properties of the membrane minimise the risk of condensation within the structure and to allow water vapour to escape into the vented cavity.



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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 TF200 Extreme external breather membrane for walls, with a Class W1 water penetration resistance.

#### **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. 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.

