

PROTECT TF200 VAPOUR PERMEABLE MEMBRANE FOR TIMBER FRAMED CONSTRUCTION

Protect TF200 is a high-performance membrane with high wet strength, water resistance and vapour permeability.

It is used as a water-protection membrane in timber framed panel construction, where it performs a number of essential functions:

■ To provide a second line of protection against rainwater penetration during the life of the building.

Masonry cladding in particular requires a membrane since it allows some rain penetration into the cavity. Sheathing materials are not normally water-resistant.

Protect TF 200 vapour-permeable membrane provides full protection to the whole of the external wall including the joints between panels, the sole plate and intermediate floor zones.

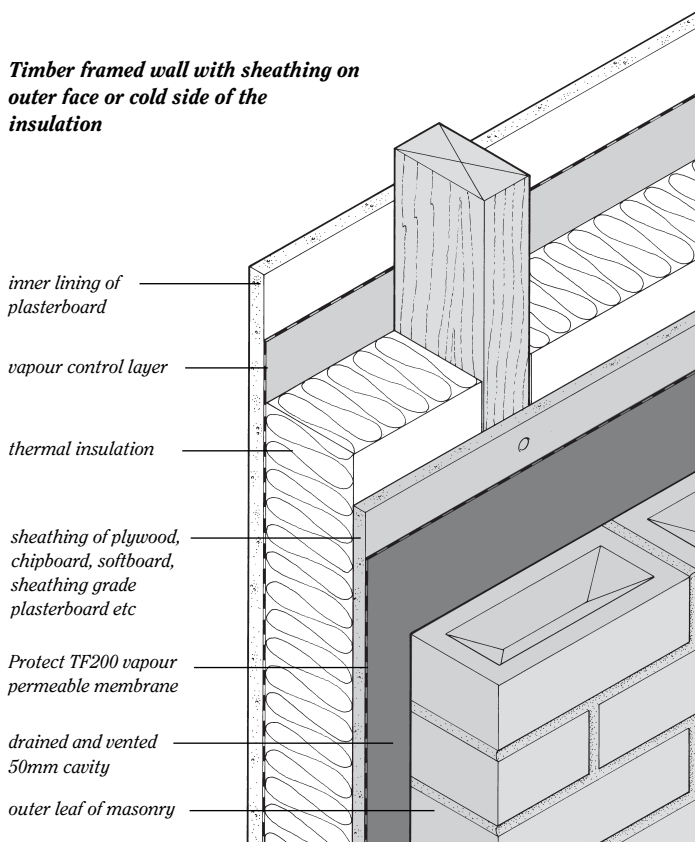
■ To allow water vapour to escape from the structure into a drained and vented cavity behind the external cladding.

The membrane is positioned on the cold side of the insulation to minimise the risk of condensation within the insulation, and to allow water vapour to escape into the vented cavity.

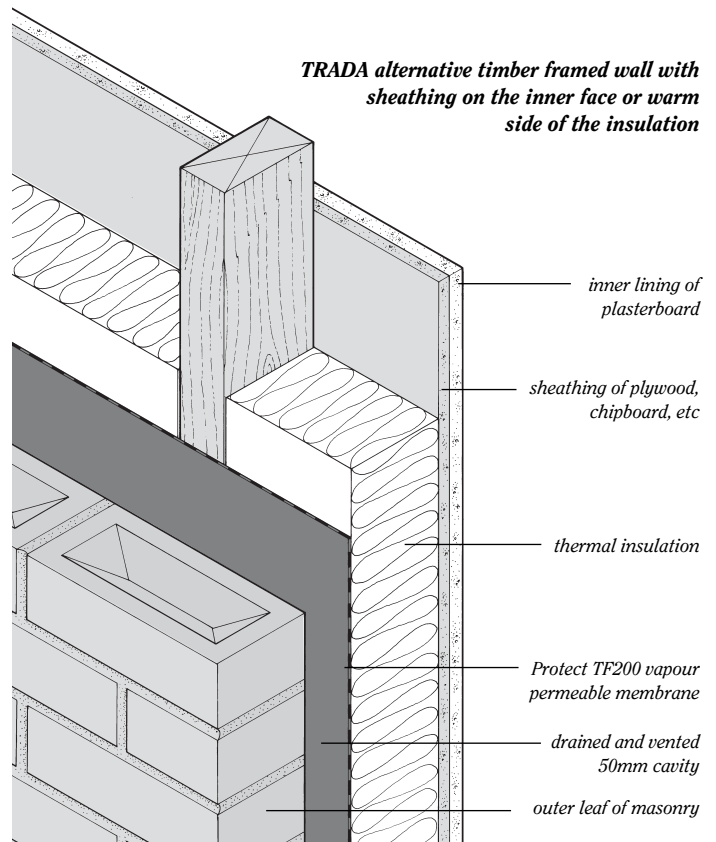
Wall sheathing may be on the inner face (warm side), or the outer face (cold side) of the wall. This does not affect the placing of or need for the membrane.

■ To protect and waterproof the structure during the construction period before external cladding is applied.

Timber framed wall with sheathing on outer face or cold side of the insulation



TRADA alternative timber framed wall with sheathing on the inner face or warm side of the insulation



PROTECT TF200 VAPOUR PERMEABLE MEMBRANE

Specification clause

Vapour permeable membrane to be Protect TF200 high-performance spun-bonded polypropylene flexible sheet with British Board of Agrément Certification (No 01/3806) and having the following minimum characteristics: water penetration resistance 330mm, maximum water vapour transmission resistance 0.106MNs/g, nail tear resistance (dry) average 76N in either direction, burst strength 469kPa, thickness 0.450mm, material weight 0.10kg/m², non-reflective embossed and textured surface.

Supplied by Glidevale Ltd, 2 Brooklands Road, Sale, Cheshire M33 3SS, Telephone: 0161 962 7113, Fax: 0161 905 2085, Email: info@glidevale.com

Note: for performance specifications references to product and manufacturer can be deleted.

ADVANTAGES AND BENEFITS

- Covered by British Board of Agrément Certificate No 01/3806, providing independent confirmation of performance.
- Resists the passage of water, wind-blown snow and dust into the interior of the building.
- Good water penetration resistance.
- More than four times the vapour permeability recommended by BRE and TRADA for a vapour-permeable membrane in timber-frame construction.
- Unaffected by the conditions found in timber framed walls.
- Life comparable with similar elements of construction (vapour checks etc).
- Good nail tear resistance compared with alternative membranes.
- High burst strength, and can withstand loads associated with installation in timber frame construction.
- UV stabilised to reduce degradation by sunlight.
- Embossed and textured surface to minimise reflected glare, and consequent risk of accidents.

DESCRIPTION

Composition, manufacture

Flexible sheet of polypropylene strands randomly spun-bonded together, in a CFC-free process.

Size

Roll widths: 2.7m, 3.0m.

Roll length: 100m.

Thickness: 0.450mm.

Material weight: 0.10kg/m².

Roll weights: 27.0kg, 30.0kg.

Other roll widths available.

Appearance

Range of colours with non-reflective embossed and textured surface.

PERFORMANCE

General

Protect TF200 meets the TRADA requirements for a high-performance vapour-permeable membrane for timber frame construction. Test values are shown for comparison in the table below.

Strength

Burst strength 469kPa to BS 3137: 1972 (1995).

Performance characteristics	Protect TF200 performance	Test method
Water penetration resistance (mmH ₂ O)	330	BS EN 20811
Water vapour resistance (MNs/g)	0.106	BS 3177
Tear resistance in any direction, dry (N)	76	MOAT 27 5.4.1

Installation

Sheets must be lapped at all horizontal and vertical joints, with upper sheets overlapping those lower down.

References

Building Regulations Approved Document C4 'Resistance to weather and ground moisture' 1992

BS 3177: 1959 (1995) Method for determining the permeability to water vapour of flexible sheet materials used for packaging.

BS EN 20811: Determination of resistance to water penetration - hydrostatic pressure test.

BS 5628: 'Code of practice for use of masonry' Part 3: 1985 'Materials and components, design and workmanship'

TRADA TBL 64.

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Glidevale Limited maintains a policy of continuous development and reserves the right to amend product specifications without notice.

BPD

A member of the Building Product Design Group

