

protect

Correct detailing and use of air and vapour control layers or air barriers in conjunction with Protect Lap and Seal Technology can dramatically reduce air leakage and energy consumption in buildings.

LAP AND SEAL TECHNOLOGY

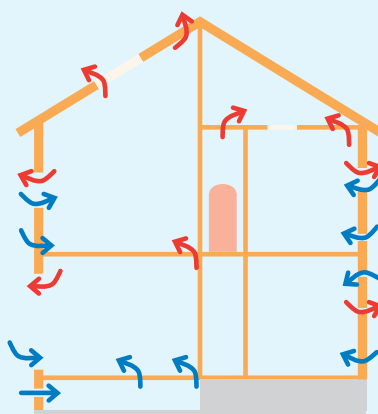
The Protect range of sealing tapes has been developed to complement the Protect range of construction membranes including timber frame/cladding membranes and vapour control layers, to help reduce uncontrolled air leakage in all forms of building construction.

Design and Construction

Airtightness must be addressed at both the design and construction stages to be wholly effective. Whilst the minimum standards have been achieved on a number of new buildings, many fail to comply owing to inadequate design and poor site construction.

Air Leakage Paths

Common air leakage paths are shown in the illustration. The airtightness strategy needs to address these problem areas by introducing air barriers into the structure which are well sealed at junctions and between the elements to reduce uncontrolled air leakage. Detailing should be as simple as possible to allow for ease of installation.



- Leakage through ceiling from gaps around loft hatch frame or inadequate seals between the hatch and frame.
- Gaps around electrical services, cables, sockets, light fittings, ceiling roses and recessed lights.
- Partition junctions, particularly with external walls or ceilings.
- Gaps between floorboards or blocks, particularly around the perimeter / gaps at the junctions of floors and external walls.
- Gaps around windows and external doors, eg window frame and wall reveals, between doors and frames, door thresholds etc.
- Gaps around extractor fans, boiler flues and cooker hoods.
- General leakage through walls - gaps in mortar joints or missing joints around blockwork on the inner leaf.
- Gaps around service pipes, eg plumbing supply, central heating and soil pipes, particularly behind sinks, baths and WC's.
- Cuts and holes in vapour control membrane to accommodate service penetrations.

Controlled Ventilation

Sealing of the building fabric to eliminate air leakage will significantly reduce 'fortuitous' ventilation, so the need for controlled ventilation to provide good air quality and prevent condensation and mould growth becomes increasingly important.

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The Protect Tape Range

All surfaces to be bonded must be clean and dry, and free of dust, grease, debris and standing water.



Protect Reveal Tape

Single-sided high-tack extremely durable woven reinforced reflective tape, ideal for dressing into awkward details without tearing. Performs the airtightness function between the internal AVCL and the external cladding or membrane in and around doors and window reveals.

Roll size:
50mm x 50m roll
(with a release liner
split at 35/15mm)

Applications:
Designed to seal the structural reveal of the building to the edge of the window frame reveal prior to structural finishing.

Roll size:
75mm x 50m roll
(with a release liner
split at 37.5/37.5mm).

Applications:
Designed to seal corners, wall to floor, wall to ceiling junctions and awkward penetrations through the AVCL.

Roll sizes:
200mm x 50m and
300mm x 50m roll.

Applications:
Designed for use in window and door reveals to both line the reveal and maintain the integrity of the ACVL.

Protect Double-sided Tape

Double-sided, high-tack tape for sealing between laps of Protect and other membranes.

Roll size: 50mm x 50m

Applications:
Designed for sealing overlaps of timber frame membranes, air barriers and vapour control layers and for sealing Protect membranes to smooth surfaces. Can be used for internal or external applications.

For use with:

Protect TF200	●	●	●	●
Protect TF200 Thermo	●	●	●	●
Protect VC Foil Ultra	●	●	●	●
Protect BarriAir	●	●	●	●
Protect 5000 Façade	●	●	●	●
Protect VP400 Plus LR	-	-	-	●
Protect Zytec	-	-	-	●
Protect VP300	-	-	-	●
Protect A1	-	-	-	●
Protect Wunderlay	-	-	-	●
Protect A1 T3	-	-	-	●
Protect FCM 750	-	-	-	●
Protect PWAB	-	-	-	●
Protect GDB10 Plus	●	●	●	●

Applications:

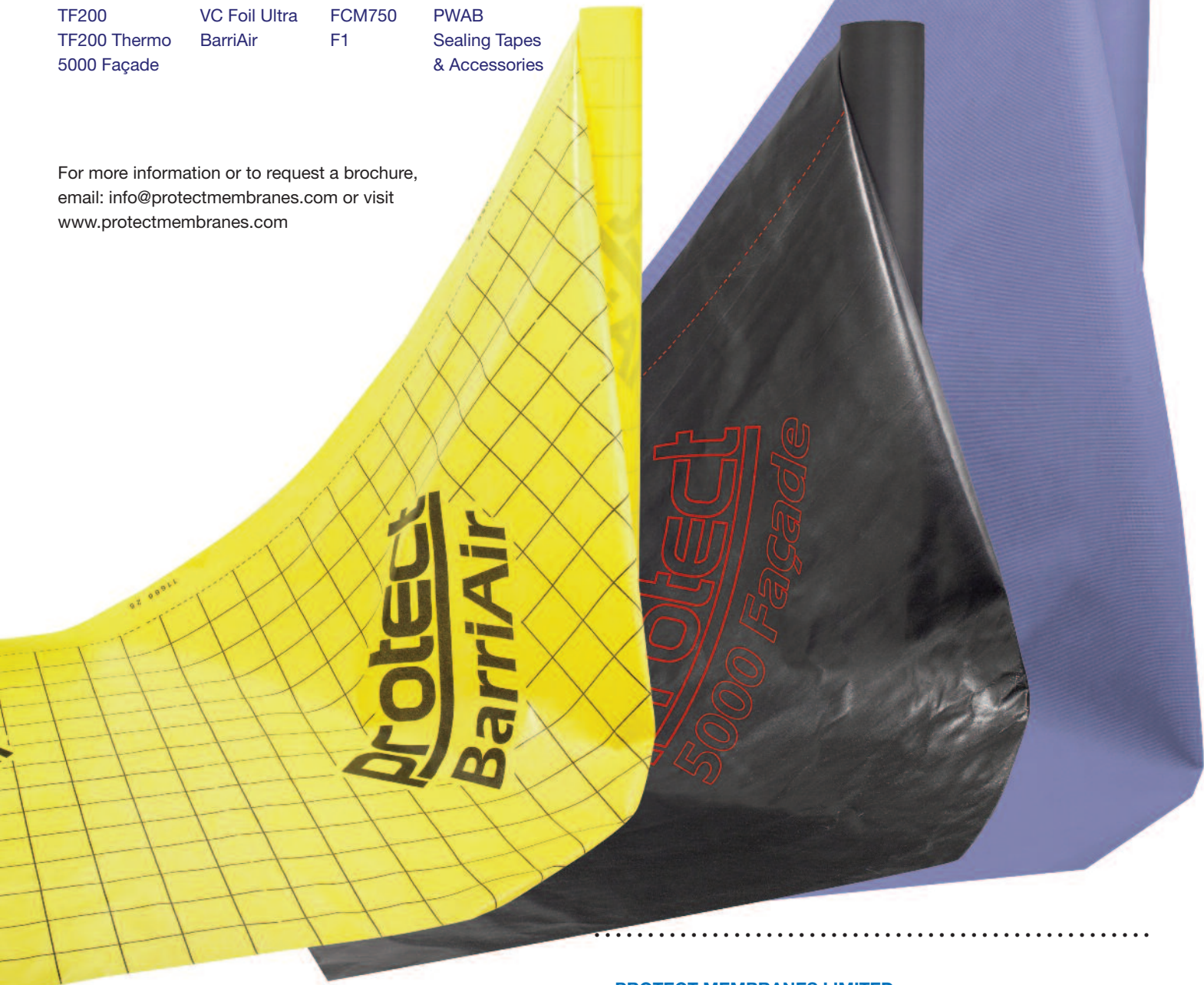
Between lap sealing	-	-	-	●
Overlap sealing	●	●	●	-
Nail penetrations	-	-	-	-
Service penetrations	●	●	●	-

PROTECT CONSTRUCTION MEMBRANES

The Protect range of building membranes are designed and developed to provide cost-effective innovative solutions for the construction standards of today and the future. The range includes the latest in reflective technology and air tightness.

Wall	AVCL	Floor	Other
TF200	VC Foil Ultra	FCM750	PWAB
TF200 Thermo	BarriAir	F1	Sealing Tapes & Accessories
5000 Façade			

For more information or to request a brochure,
email: info@protectmembranes.com or visit
www.protectmembranes.com



Stockist's stamp

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



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