protect

VC FOIL ULTRA
LOW EMISSIVITY AIR AND VAPOUR CONTROL LAYER

Protect VC Foil Ultra with newly integrated lap and sealing tapes is a robust highly reflective low emissivity vapour control layer which has been developed to enhance the thermal performance of walls, ceilings and floors and offers Class 1 Surface Spread of Flame to BS 476-7. It provides a significant thermal benefit along with strength and performance enhancements over conventional vapour control layer materials when used with a service cavity. The new integrated lap and sealing tape speeds up installation when compared to traditional overlap tapes.

Construction Products

BM TRADA
Q-MARK CERTIFICATION
CPS-004

Protect VC Foil Ultra is of triple ply construction and the innovative design incorporates an adhesive strip located on the outer edges of the membrane and follows the dotted overlap line. Along one edge the tape is on the upper surface, on the opposite edge the tape is on the lower surface. This layout allows ease of application, quick installation and ensures that the overlap is correctly jointed and sealed by securing the two strips of integrated tape together. This provides a more reliable, effective seal than a traditional overlap tape even when joined without an underlying substrate.

Additionally, when applying any mechanical fixings through the double layered sealing laps, the integrated tape acts as a secondary sealant and reduces air leakage in these otherwise problematic areas.

BENEFITS

- Provides an airtight system when installed with sealed laps.
- Excellent air and vapour resistance.
- Helps to avoid condensation risk in accordance with BS 5250.
- Integrated tapes for quicker installation and reliable, effective joint sealing.
- Low emissivity reflective surface enhances the thermal performance of the structure into which it is incorporated (still air cavity required).
- Corrosion and damage resistant reflective surface.
- Excellent nail tear resistance.
- High burst strength, tough and durable.
- Easy to cut and lightweight to handle.
- BM TRADA Independently certified for all applications.

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INSTALLATION

Protect VC Foil Ultra is installed on the warm side of the structure immediately adjacent to the insulation and can be used on walls and ceilings to significantly improve thermal performance and reduce air leakage in any construction helping to meet Building Regulations and Standards requirements for airtightness.

Roll sizes

1.35m x 50m, 1.5m x 50m (with integral lap and sealing tapes), 2.7m x 50m, 2.7m x 100m and 3.0m x 50m.

Improvement in thermal resistance values using Protect VC Foil Ultra

	Airspace (mm)	Unventilated airspace: No special treatment (m²K/W)	Protect VC Foil Ultra facing into airspace (m²K/W)	Improvement with Protect VC Foil Ultra
Heat flow horizontal	≥20	0.18	0.78	333%
Heat flow upwards	≥13	0.16	0.53	233%
Heat flow downwards	50	0.21	1.41	571%

PERFORMANCE

	MD (along roll)	CD (across roll)
Nail Tear Strength (N) to EN 12310-1 with mods	160	160
Tensile Strength (N/50mm) to EN 12311-1 with mods	229	226
Water vapour resistance (MNs/g) to EN 1931	>589	
Thermal resistance m²K/W heat flow horizontal	0.78	
Weight g/m²	150	

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.

BPD

LLOYD'S REGISTER·LRQA   ISO 9001
LLOYD'S REGISTER·LRQA   ISO 14001
LLOYD'S REGISTER·LRQA   OHSAS 18001