

PAVADENTRO Internal Insulation System for Solid Walls

The PAVADENTRO Internal Insulation System for solid walls is for internal insulation of masonry buildings where the external appearance of the building cannot be altered. The system uses woodfibre boards, containing a vapour control layer, in a continuous layer across the internal walls, thus providing an unbridged thermal shell which is highly breathable but will not allow unacceptable levels of water vapour to pass into the solid wall structure.

Better than a traditional vapour barrier:

The main aim with renovation projects is always to ensure the building structure does not take up too much moisture. Traditional insulation using a vapour barrier is well known to be fraught with risks. PAVADENTRO allows the vapour to diffuse across the entire surface, where it is then redistributed. This means that the average moisture content of a solid wall is lower when PAVADENTRO is used than with a vapour barrier.

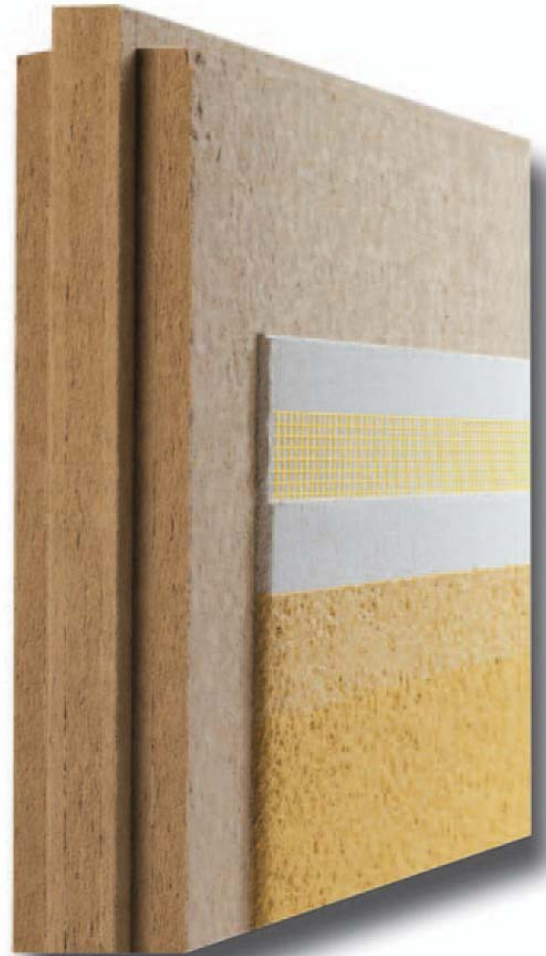
Mineral based breathable plaster and eco-paint finishes are provided for the inside of the wall, applied directly to the PAVADENTRO insulation board.

System Application:

PAVADENTRO boards are highly vapour open and hygroscopic making them very suitable for the thermal upgrading of existing solid wall buildings.

System Benefits:

- Excellent thermal performance, with reduced thermal bridging
- Highly vapour open and hygroscopic system ensuring fully breathing and dry walling, with reduced risk of damp and interstitial moisture.
- Excellent acoustic performance increasing flanking sound protection
- Increased overheating protection
- Simple, robust detailing with full systems parts
- Full design and site support available
- Tried and tested system

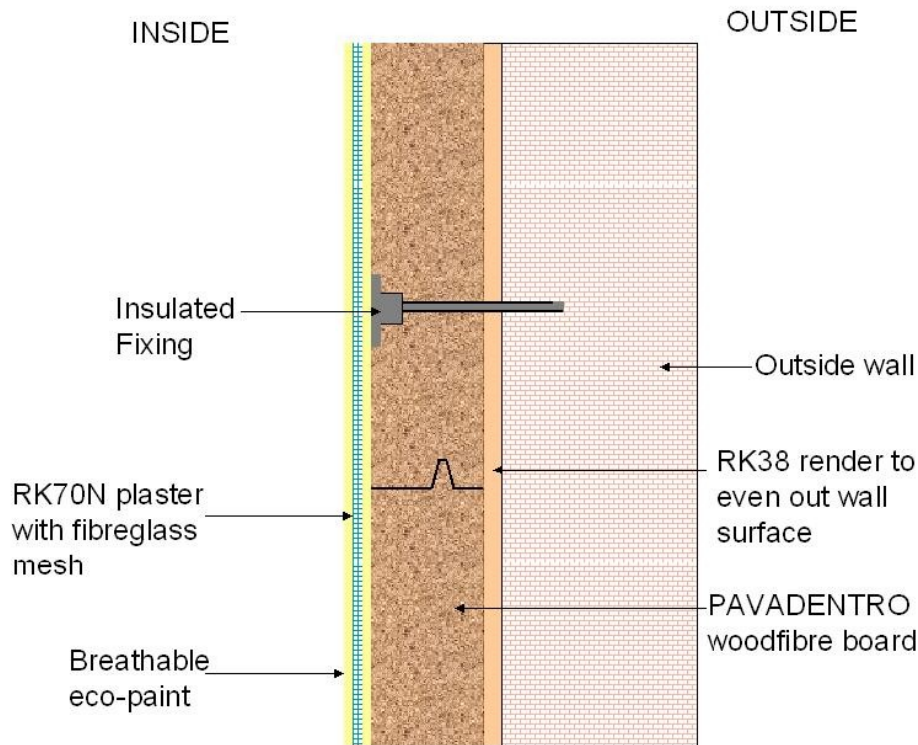


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Environmental Performance:

- Carbon positive (locks up 1.2 tonnes of CO₂ for every tonne of boards produced) and non-toxic
- Woodfibre Boards are over 95% waste wood from sustainable forests

Example System Diagram:



Full System Components:

Insulation boards: Interlocking PAVADENTRO boards (40, 60, 80, 100mm). Reveal boards for detailing.

Fixings: Insulated masonry fixings

Internal plaster system: A thin coat mineral plaster system from Baumit Bayosan. Comes with full system of reinforcing meshes and beads.

Paints: Environmentally friendly paints for internal walls.

Available Support:

Design support: Full design support including drawings review, assistance with detailing, thermal bridging (New Part L), and interstitial moisture calculations.

Training: On site for applicators, site managers etc.

Site Support: Assistance on site, advice on technical, application and quality issues.

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Installation service: Full installation service available in London and Essex region

Technical Performance Details:

Brick 215mm (9 inch) ($k=0.75$, 1700kg/m^3)

Insulation Layer	60mm PAVADENTRO	80mm PAVADENTRO	100mm PAVADENTRO
U-Value (W/m ² K)	0.55	0.44	0.37
Decrement Factor	0.17	0.15	0.13
Decrement Delay (h)	10.5	11.7	13.0
Admittance (W/m ² K)	4.24	4.24	4.24