

The Pavaclad Masonry Wall System is for insulating masonry buildings which are to be externally finished with any type of cladding including timber boards or shingles, tile, terracotta claddings, metal sheet etc. Pavaclad systems use woodfibre boards over the outside of the building in a continuous layer, thus providing an unbridged thermal shell, which is highly breathable. Mineral regularising coats are provided if required for the outside of the wall, along with a range of fixings, tapes and rails. Mineral plasters and environmental paints can also be provided for the inside of the building.

System Application:

Existing buildings: Pavatex boards are highly vapour open and hygroscopic making them very suitable for the thermal upgrading of existing solid wall buildings, as well as brick-infilled traditional timber frames, all of which need to breathe. They can also be used with cavity constructions.

New Masonry walls: Pavaclad systems can be used with both new solid wall and cavity walls.



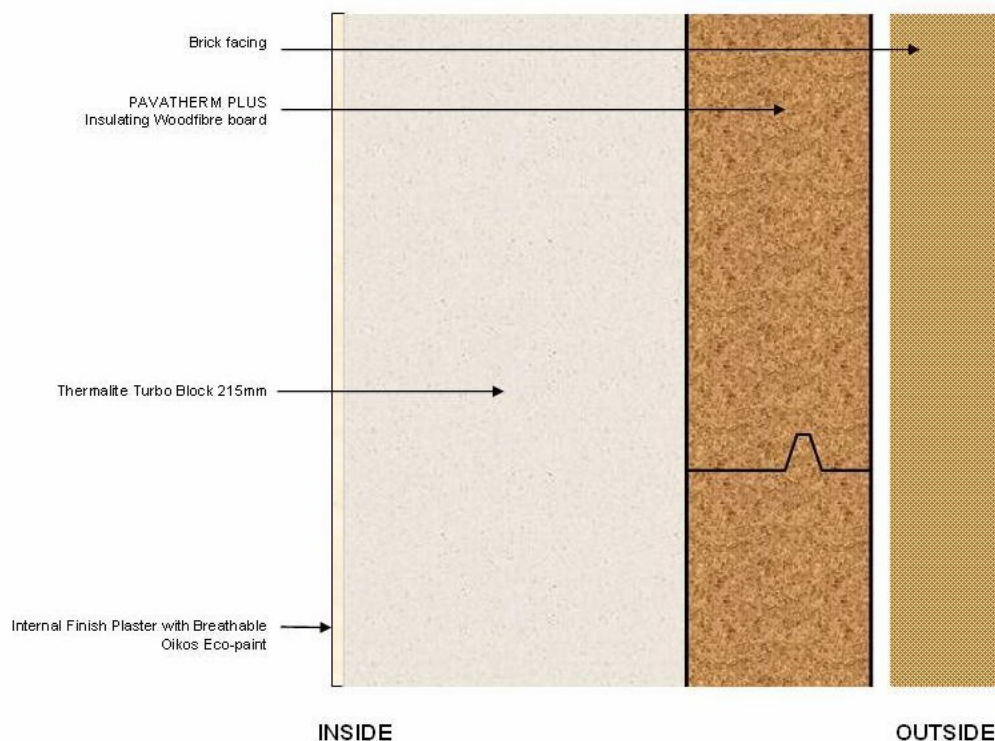
System Benefits:

- 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, fully certified

Environmental Performance:

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

Example System Diagram (with outer brick facing):



Full System Components:

Insulation boards: Interlocking, waterproof Isolair boards (22, 35 or 60mm) or Pavatherm Plus boards (60, 80 or 100mm). and square edged backing insulation Pavatherm boards (20mm - 100mm).

Tapes and Glues: Pavatape and primer for exposed edges, selection of airtightness details for internal junctions and detailing.

Fixings: A range of helical, screw and hammer fixings for different masonry substrates, boards and claddings.

Renderers: Mineral based, breathing regularising renders to flatten out wall surfaces if required

Plaster boards and paints: GreenSteps can provide clay boards, breathing mineral based plasters and 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.

PAVACLAD Masonry Wall System

Training: On site for applicators, site managers etc.

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

Installation: Complete installation and eco-building service available in the London and Essex region.

Technical Performance Details:

Thermalite Turbo Block 215mm (k=0.11, 470kg/m³)

Insulation Layer	60mm Pavatherm Plus	80mm Pavatherm Plus	100mm Pavatherm Plus	60mm Pavatherm Plus	60mm Pavatherm Plus	60mm Pavatherm Plus
Insulation Layer				60mm Pavatherm	80mm Pavatherm	100mm Pavatherm
U-Value (W/m ² K)	0.31	0.27	0.24	0.21	0.19	0.17
Decrement Factor	0.17	0.13	0.11	0.09	0.07	0.05
Decrement Delay (h)	13.0	14.3	15.6	16.8	18.1	19.3
Admittance (W/m ² K)	2.57	2.57	2.57	2.57	2.57	2.57

Brick 215mm (k=0.75, 1700kg/m³)

Insulation Layer	60mm Pavatherm Plus	80mm Pavatherm Plus	100mm Pavatherm Plus	60mm Pavatherm Plus	60mm Pavatherm Plus	60mm Pavatherm Plus
Insulation Layer				60mm Pavatherm	80mm Pavatherm	100mm Pavatherm
U-Value (W/m ² K)	0.52	0.42	0.36	0.29	0.25	0.22
Decrement Factor	0.17	0.15	0.13	0.11	0.09	0.07
Decrement Delay (h)	10.4	11.5	12.7	14.0	15.2	16.5
Admittance (W/m ² K)	4.24	4.24	4.24	4.24	4.24	4.24