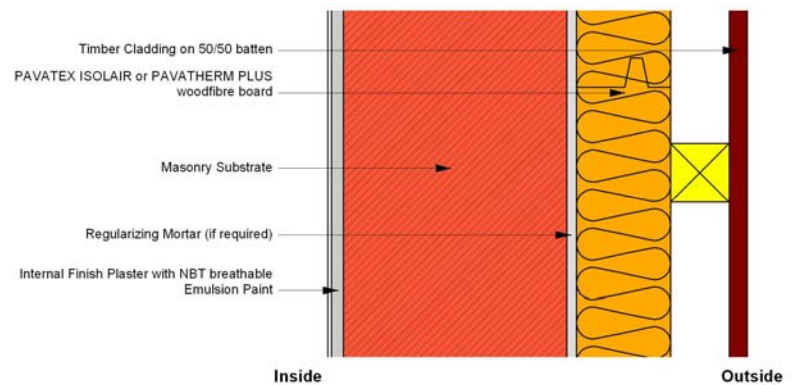


PAVACLAD / System description:

The NBT Masonry Pavaclad 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.

NBT 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.

NBT Masonry PAVACLAD System



System Application:

Existing buildings: NBT 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: NBT Pavaclad systems can be used with both new solid wall and cavity walls.



System Benefits:

- Excellent thermal performance, with reduced thermal bridging and excellent ψ (psi) values
- 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 from NBT
- Tried and tested system, fully certified

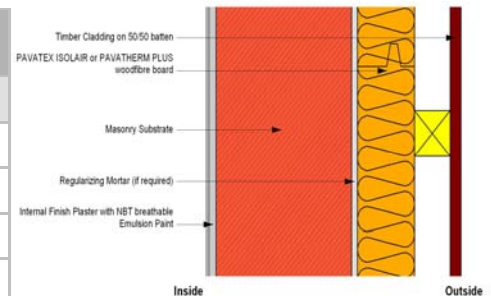
Environmental Performance:

Woodfibre boards are non-toxic, contain over 95% waste wood from sustainable forests, and lock up 1.2 tonnes of CO₂ for every tonne of boards produced. They are BREEAM Green Guide, and WRAP assessed.

Technical details: Thermal values

Thermalite Turbo Block 215mm ($k=0.11$, 470kg/m^3)

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* $[\text{W/m}^2\text{K}]$	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 $[\text{W/m}^2\text{K}]$	2.57	2.57	2.57	2.57	2.57	2.57



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

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* $[\text{W/m}^2\text{K}]$	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 $[\text{W/m}^2\text{K}]$	4.24	4.24	4.24	4.24	4.24	4.24

Also the calculation of γ values is available for specific build ups, enabling better thermal performance (New Part L) calculations and/or thinner structures.

Calculations for other masonry wall types and build ups available from NBT

Full System Components:

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

Tapes: Pavatape for exposed edges, and a selection of airtightness tapes 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.

Plasters and paints: Breathing mineral based plasters and environmental paints for internal upgrading of walls if required.

NBT Support:

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

Training: either at NBT or on site for applicators, site managers etc

Site Support: NBT will assist on site, giving advice on technical, application and quality issues.

Approved Applicators: NBT have a list of trained and approved applicators for the various systems processes.

