

PAVAROOF Flat Roof System

The Pavarooof Flat roofing system is for flat roofs with vapour closed unvented roof coverings of all sorts. The Pavarooof Flat system comprises of square edged woodfibre boards over the decking in an un-bridged layer, to provide a highly insulated roof both thermally and acoustically, with excellent summer overheating protection. There are a number of flat roofing systems available from



GreenSteps, including breathing roofing systems, green roofs, and systems with different types of boards and different fixing methods. Please contact GreenSteps for further details.

System Application:

The Pavarooof Flat Roofing System is suitable both for all types of flat roofs, including new build and for the refurbishment/upgrading of existing roofs. It is particularly suitable where flat roofs are directly above living or working areas and other applications where there can be problems with summer overheating or with external noise pollution.

System Benefits:

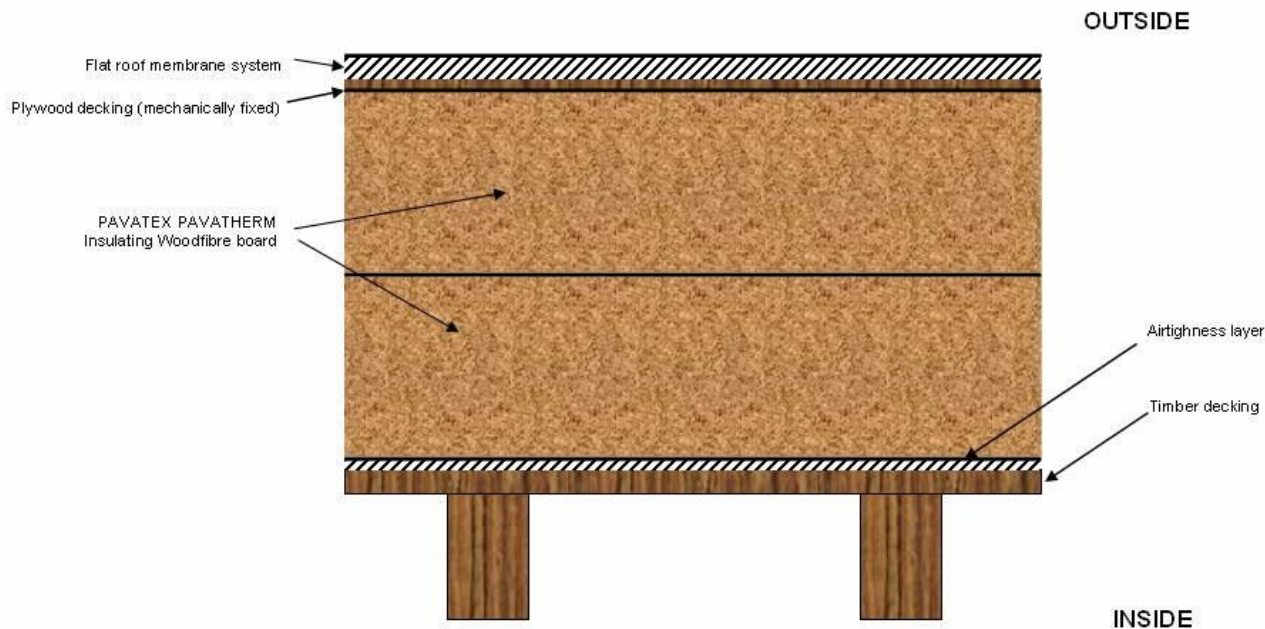
- Good thermal performance, with very low thermal bridging (y values), utilising air-based insulation material
- Excellent summer overheating protection, due to high thermal mass of boards
- Excellent acoustic insulation for both airborne and impact (rain) noise
- Full design and site support available
- Full systems parts from GreenSteps
- Robust and easy system to install
- Tried and tested system

Environmental Performance:

- BREEAM Green Guide and WRAP assessed
- 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

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System Diagram & Technical Performance Details:



| | | | | | | |
|---------------------------------|-----------------|----------------|----------------|----------------|-----------------|-----------------|
| Insulation Layer | 100mm Pavatherm | 60mm Pavatherm | 60mm Pavatherm | 80mm Pavatherm | 80mm Pavatherm | 100mm Pavatherm |
| Insulation Layer | none | 60mm Pavatherm | 80mm Pavatherm | 80mm Pavatherm | 100mm Pavatherm | 100mm Pavatherm |
| U-Value [W/m ² K] | 0.34 | 0.29 | 0.25 | 0.22 | 0.20 | 0.18 |
| Decrement Factor | 0.75 | 0.64 | 0.53 | 0.43 | 0.34 | 0.27 |
| Decrement Delay [h] | 5.1 | 6.3 | 7.6 | 8.9 | 10.2 | 11.5 |
| Admittance [W/m ² K] | 1.87 | 1.87 | 1.87 | 1.87 | 1.87 | 1.87 |



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Full System Components:

Insulation boards: Square edged Pavatherm boards (20, 30, 40, 60, 80, 100mm) or interlocking and water-resistant Isolair boards (22, 35, 60mm) or Pavatherm Plus boards (60, 80, 100mm).

Fixings: A range of screw fixings for different boards and roofing materials.

Infill insulation: GreenSteps will provide either Thermafleece sheep's wool insulation or Hemp insulation for use between supporting joists to provide improved performance.

Plaster boards and paints: GreenSteps can provide clay boards, plasters and environmentally friendly paints for ceilings.

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.

Installation: Full installation service available in London and Essex region

