

The Pavafloor Thermal System is a thermal insulation system for solid floors where a solid wood or dry fix tile system is specified. Woodfibre boards have particularly good health and environmental benefits, helping to control internal moisture levels, being entirely non toxic, and also locking up carbon in their use.

### *System Application:*

The Pavafloor Thermal System can be used on any solid floor which is dry and protected from damp or any other water ingress. It is important that new oversites and screeds are fully dried before application.

### *System Benefits:*

- Good thermal performance, with reduced cold bridging by design.
- Simple dry system
- Fully ecological products
- Full design and site support available
- All system components, including solid oak flooring available from GreenSteps
- Tried and tested system, fully certified

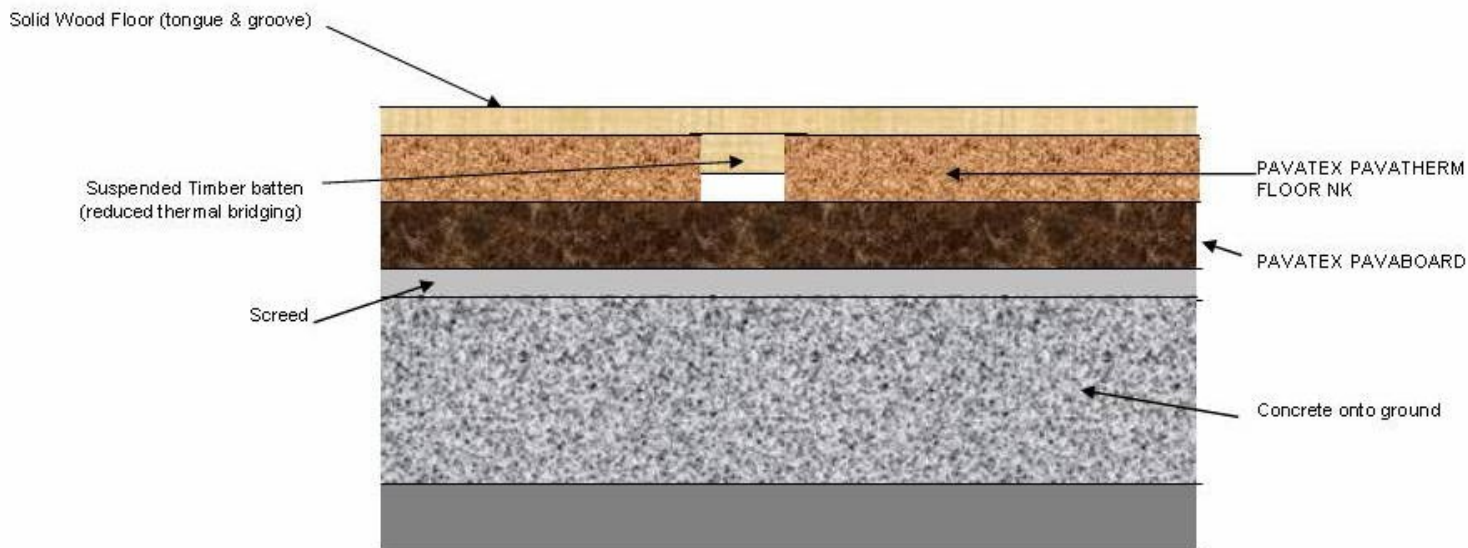
### *Environmental Performance:*

- Carbon positive (locks up 1.2 tonnes of CO<sub>2</sub> for every one tonne of board) and non toxic
- Fully environmentally audited and certified
- Woodfibre Boards are over 95% waste



# PAVAFLOOR System

## System Diagram & Technical Performance Details:



### Solid Concrete with Timber Floor Finish 22mm

Upper Insulation layer	40mm Pavatherm Floor NK	60mm Pavatherm Floor NK	40mm Pavatherm Floor NK	60mm Pavatherm Floor NK	40mm Pavatherm Floor NK	60mm Pavatherm Floor NK
Lower Insulation layer	none	none	40mm Pavaboard	40mm Pavaboard	60mm Pavaboard	60mm Pavaboard
U-Value* (W/m <sup>2</sup> K)	0.40	0.34	0.29	0.26	0.26	0.23
Construction height (mm)	62	82	102	122	122	142
Point Load (kN)	1.0	1.0	1.0	1.0	1.0	1.0
General Load (kN/m <sup>2</sup> )	2.0	2.0	2.0	2.0	2.0	2.0



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### **Full System Components:**

**Insulation boards:** Interlocking, Pavatherm Floor NK (40 or 60mm), square edged high density Pavaboard boards (20, 40 or 60mm).

**Timber battens:** Interlocking timber battens for the Pavatherm Floor NK system. These battens are held suspended by the woodfibre boards to reduce the cold bridging through the battens. This also reduces impact sound transmission.

**Timber flooring:** GreenSteps can supply solid oak wood flooring from fully PEFC certified sources in various finishes.

### **Available Support:**

**Design support:** Full design support including assistance with detailing, thermal and other calculations.

**Training:** On site for applicators, site managers etc.

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

**Installation:** Full installation and eco-building service available in London and Essex region

