

PAVASTEP

Impact Acoustic Insulation for Underlay below Timber Flooring



Construct. Insulate. Relax.



Pavastep Characteristics

Produced According to EN 13171

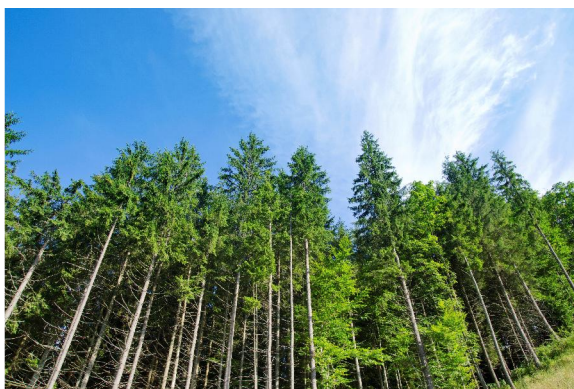
Pavastep is a very thin impact acoustic insulation underlay board which helps to reduce impact or footstep noise through floors as well as creating a more comfortable walking experience on hard floors. It also reduces the irritating clicking noise caused by hard soled shoes on hard floor surfaces. Pavastep acoustic insulation can be used as an underlay beneath hard floor surfaces such as laminate or timber flooring and it is only 8 mm thick.

The thermal insulation feature of this natural product will help to reduce any draughts rising up from the floor and into the room, and so increases the ambient temperature of the floor. Pavastep on its own will not achieve recommended U-values for ground floors so will need to be combined with more floor insulation.

The very high compression strength of Pavastep means it will not squash and go flat over time as is the case with many foam underlay mats and it will not go brittle like many rubber underlay products. This durable material will perform to its optimum for a very long time and so the product is ideal for commercial as well as residential applications.

Pavastep can be used in both new build and renovation projects and it is ideal to lay it floating or glued on all concrete, dry screed or timber floors. It can also be used beneath top-decks e.g. OSB board, chipboard or dry screeds. It will level out small unevenness in the sub-deck.

Pavastep is a high quality product that will last a long time in buildings due to its high density, high compression strength and breathability. The CE marked Pavatex wood fibre insulation panels are sourced from new timber off-cuts from local sawmills. This timber is harvested from sustainable FSC and PEFC certified forests. Pavatex wood fibre boards are made from natural raw materials and so will not emit any toxic chemicals into the interior environment.



Thickness (mm)	Weight (kg / m ²)	Board Size (cm)	No. Boards per Pack	No. Packs per Pallet	M ² per Pallet	KG per Pallet	Edge Profile
8	1.84	102 x 60	15	32	293.76	559	Square Edge

Technical Details	Pavastep 8mm
Density (kg / m ³)	230
Declared Thermal Conductivity λ D (W/mK)	0.046
Vapour Diffusion Factor μ	5
Specific Heat Capacity - C (J/kgK)	2100
Tensile Strength Perpendicular to Plane of Board (kPa)	15
Compression Strength at 10% (kPa)	130
Fire Behaviour (EN 13501-1)	Class E
Building Material Class (DIN 4102-1)	B2
Waste Code According to European Waste Catalogue	030105 - 170604
Identification Code	WF-EN13171-T5-CS(10/Y)130-TR15-WS2,0-MU5-AF100

Application

Before the Pavastep boards are laid, the sub-deck must be swept and cleaned. Building materials such as concrete or plaster scraps must be removed. If necessary, secure old or loose floorboards by screwing them to the joists and repair damaged areas. Seal all gaps to reduce the passage of noise. New concrete floors should have a damp proof course laid first to prevent rising damp.

Pavastep can be laid as a floating floor or can be glued to concrete, screed or timber floors. In order to optimise the cut-offs, each row should start with the cut-off from the previous row. The boards can be cut with a sharp knife with a straight edge guide. Keep the boards dry when in storage and protect from damage.

Engineered Wood Flooring and Laminate Flooring

Prepare the sub-deck and lay Pavastep either loosely or glued in a brickwork formation. Leave a 10 mm expansion gap at all the perimeter edges and seal the gap with permanently flexible adhesive or acoustic sealant. The engineered wood and laminate floors are laid as floating floors with the necessary expansion gaps as recommended by the flooring manufacturer. The tongue and grooves of the engineered floors are usually glued with wood adhesive, as per manufacturer's instructions. Because the Pavastep boards are quite small and light they are easy and very quick to fit.

Parquet Floors

If laying parquet flooring, which usually comes in small blocks, both the Pavastep and the parquet block pieces must be fully glued onto the entire area, using suitable wood glue.

Cork Tiles

Glue the full surface of the Pavastep underlay boards onto the prepared sub-deck. Then the cork tiles must be fully glued using a proprietary cork tile adhesive on top of the Pavastep. When fitting pay attention that the boards are correctly aligned at the joints and that the correct expansion gaps are left. The minimum thickness of cork tiles to be used is 6 mm.

Ceramic Tiles

Ceramic tiles cannot be bonded directly to Pavastep so a top-deck will need to be laid over the wood fibre board e.g. a tile backing board or OSB. Then tile directly to this top-deck.

Usage Instructions

- Store the goods in a dry place and keep flat.
- The panels can be cut with a sharp knife or carpet knife.
- If a hole or gap occurs in the wood fibre due to a construction error, seal it with wood fibre pieces or foam.
- Fit in a brickwork formation.
- Very quick and easy to fit.



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