

# SOFTBOARD STANDARD NATURAL



Construct. Insulate. Relax.

## Universal Wood Fibre Insulation for Internal Use and Noticeboard Material



## Softboard Standard Natural Characteristics Produced According to EN 13171

**Softboard Standard Natural** wood fibre thermal insulation rigid softboards have a variety of uses, for example they are ideal to use as thermal insulation, acoustic insulation, acoustic absorption panels, packaging material, noticeboard and pinboard material as well as in office partitions and hollow doors to improve sound insulation. Softboard Standard Natural is a high quality product that will last a long time in buildings due to its high density (230 kg/m<sup>3</sup>) and breathability, which means that water vapour passes through the boards and evaporates. This is critical to keep the building structure dry and therefore structurally sound. The CE marked Pavatex wood fibre insulation panels are sourced from new timber off-cuts from local sawmills. These off-cuts are from sustainable FSC and PEFC certified timber and the wood fibre boards are made from natural raw materials and so will not emit any toxic chemicals into the interior environment.

### Thermal and Acoustic Insulation for Walls, Floors and Ceilings

These rigid softboards can be used internally on floors, walls and ceilings to provide both thermal and acoustic insulation. The boards reduce both impact (e.g. footstep) noise and airborne (e.g. talking, music) noise when placed on floors, as well as reducing some heat loss through the floor. Softboard Standard Natural boards have a high compression strength, so are ideal to be used in floor constructions where high concentrated point loads are typical, and they can be used under a concrete screed as well as on timber floors. Softboard Standard Natural can also be installed onto walls and ceilings whether they are of masonry or timber construction, to limit heat loss and to reduce noise transmission through the structures. This is best used with additional insulation.

### Timber Frame Buildings

Softboard Standard Natural boards are widely used in the manufacture of timber frame buildings. The large sized boards are used as diffusion-open sarking boards for the pre-fabricated wall elements. The wood fibre insulation boards will reduce thermal bridging through the junctions and so will conserve considerable heat energy.

### Room Acoustics

Wood fibre is also very good at absorbing noise within a room to reduce echo and reverberation and so these boards are often used for this purpose. This improves speech clarity and is particularly important in large rooms with lots of hard surfaces e.g. gyms, sports halls, classrooms, music rooms, restaurants etc. They can be covered in fabric for aesthetic purposes if required.

### Noticeboards and Pinboards

Softboard Standard Natural is a very good base material to use for noticeboards and pinboards as they enable the repeated insertion and withdrawal of drawing pins without damaging the surface. They can be covered with fabric if required. They are also a very economical wall covering material which will absorb background noise and reduce reverberation.

Thickness (mm)	Weight (kg / m <sup>2</sup> )	Board Size (cm)	No. Boards per Pallet	M <sup>2</sup> per Pallet	KG per Pallet	Edge Profile
8	1.8	250 x 120	125	375.0	708	Square Edge
10	2.3	250 x 120	100	300.0	708	Square Edge
12	2.8	250 x 120	82	246.0	697	Square Edge
16	3.7	250 x 120	62	186.0	702	Square Edge
19	4.4	250 x 120	52	156.0	700	Square Edge

Technical Details	Softboard Standard Natural
Density (kg / m <sup>3</sup> )	230
Declared Thermal Conductivity $\lambda$ D (W/mK)	0.046
Vapour Diffusion Factor $\mu$	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

### Insulating Floors

Softboard Standard Natural can be used to acoustically and thermally insulate both solid and timber joist floors and they only raise the floor level by a small height. The Softboard Standard Natural boards are usually laid floating on a timber sub-deck or on a concrete floor in a brickwork formation, ensuring that all the perimeter edges are decoupled from the walls by inserting a flanking or perimeter strip. Any floor covering can be laid over the wood fibre layer but for ceramic tiles, lay a timber top-deck e.g. tile backing board or OSB over the wood fibre layer first and bond the tiles to this. Use a damp proof membrane on new concrete floors to prevent the ingress of moisture into the wood fibre layer. Screeds can also be poured over the wood fibre layer but it must first be protected with a damp proof membrane. Keep the boards dry when in storage and protect from damage.

The very competitively priced Softboard Standard Natural wood fibre boards substantially reduce impact or footstep noise through floors, and airborne noise (e.g. talking, music, TV noise) is also reasonably well reduced. This system is highly recommended when an improvement in impact noise insulation is required to meet Building Regulations. It will work best for both airborne and impact soundproofing when the plasterboard ceiling below is decoupled with resilient bars. If space allows, the denser Softboard Standard Natural can be laid over Pavatherm to further improve both thermal and acoustic insulation. Results will also improve if Pavaflex insulation is placed in the floor cavity, if applicable.

### Insulating Attics

Softboard Standard Natural can be installed below the roof rafters, on the attic walls or above the attic floor to very effectively reduce the risk of thermal bridging. It will need to be combined with Pavaflex flexible insulation within the cavity to reach required U-values. The thicker Softboard Standard Natural boards will protect the property from overheating during summer-time which is particularly critical in buildings where the attic space is used for living accommodation and in dormer bungalows.

### Timber Frame Buildings

The large Softboard Standard Natural wood fibre boards are ideal to be used as sarking boards on timber frame buildings when constructed off-site. The wood fibre must be protected with a weather resistant material before on-site installation.

### Acoustic Absorption

Softboard Standard Natural boards have good absorption values so they can be placed on the finished walls or ceilings to absorb echo and reverberation noise within a room. This means that it is easier to hear people speak which is critical in educational environments as it improves concentration. Sound waves bounce off hard surfaces and reflect back into the room which is very irritating. The wood fibre boards are best used installed onto a stud frame with a cavity behind filled with Pavaflex to absorb lower frequency noise, which is harder to absorb. This cost effective solution can be used in community halls, sports halls, schools, restaurants, gyms, offices etc.

### Noticeboards and Pinboards

These are generally manufactured commercially in factories but can also be installed as a DIY project.



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