



## Breathe™ Natural Fibre Insulation

Better for you and the environment you live in

Breathe™ is a natural fibre, thermally efficient insulation that can be used in new and existing buildings. Suitable for loft, framed buildings and inter-floor applications, Breathe™ is made from sustainably UK grown hemp and flax fibres and has a low carbon footprint.

An energy saving product that delivers a similar performance to more conventional materials, Breathe™ combines low thermal conductivity and thermal mass insulating against the cold, keeping your house warm in winter but cool in summer.

To meet UK fire performance standards, the fibres in Breathe™ are treated with a simple non-reacting compound to achieve Euroclass E fire performance rating. Breathe™ complies with the fire performance requirements of the Building Regulations.

Produced in the UK, Breathe™ comprises hemp and flax fibres. The fibre is separated from the woody core of the plant in an entirely mechanical process without the use of chemicals and generates no waste. The woody core co-product from the plant is then utilised in a variety of other materials. This includes Tradical Hemcrete®, an innovative material for carbon negative highly thermally efficient walls. The natural hemp and flax fibres are bound together with only 5% polyester binder to create a semi-rigid batt.



Breathe™ can absorb and release moisture without degrading and without significant loss of thermal resistance. This gives a margin of safety against the formation of interstitial condensation and also helps to reduce humidity, aiding the creation of breathable buildings.

Easy to handle and use, Breathe™, when used appropriately, can be expected to last for the life of the building but at the end of its useful life can be disposed of by composting.

Breathe™ is available from stock in batts of 1,200mm x 575mm and 1,200mm x 375mm, in thicknesses of 50mm, 75mm, 100mm and 150mm. Non standard sizes available to order.

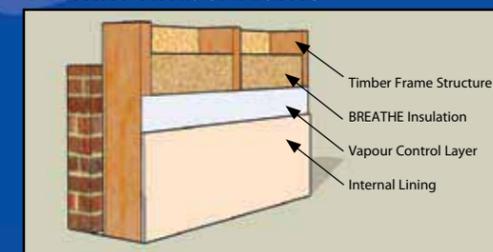
### Composition

Hemp	47.5%
Flax	47.5%
Polyester	5.0%

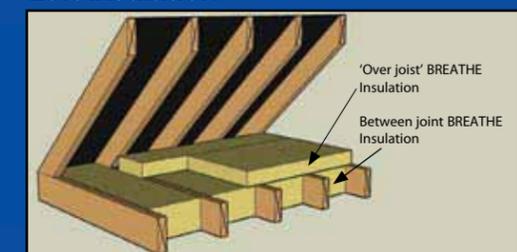
### Product Specification

Thermal Conductivity	0.039	W/m * K
Density	30	Kg/m <sup>3</sup>
Fire Rating	Euroclass E	

### 140mm Timber Frame



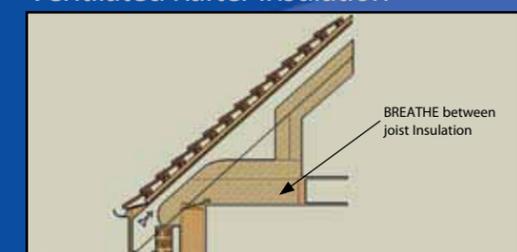
### Loft Insulation



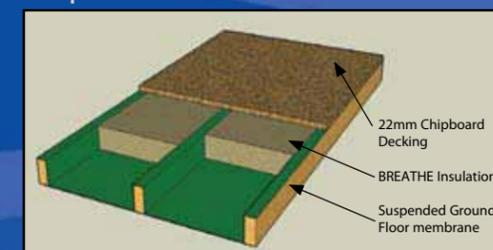
### Rafter Insulation



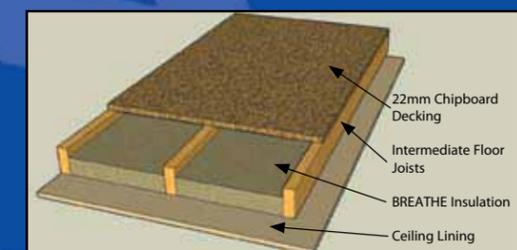
### Ventilated Rafter Insulation



### Suspended Ground Floor Insulation



### Intermediate Floor Insulation



americanlimetechnology

sales@americanlimetechnology.com

office 773-286-0566

fax 773-286-1852

3516 N. Kostner Ave., Chicago, IL 60641

