

# THERMAFLEECE Hemp

## A LIFE-TIME OF PERFORMANCE

THERMAFLEECE Hemp is a plant fibre based insulation that is ideal for quick and easy installation. It contains 60% hemp, 30% recycled polyester and 10% polyester binder with a high recycled content. THERMAFLEECE Hemp is available 1200mm long slabs in thicknesses up to 100mm.

THERMAFLEECE Hemp fits securely between rafters, joists and studs providing excellent thermal insulation performance. What's more, with a density of 28 kgm<sup>-3</sup>, THERMAFLEECE Hemp can provide great acoustic absorption.

Like all THERMAFLEECE products, it is long-lasting, safe to handle and contributes to a healthier indoor environment by regulating moisture in the building.

## WHY INSULATE WITH THERMAFLEECE HEMP?

Insulating a property will significantly lower the amount of energy lost from the building envelope, reducing energy consumption and carbon dioxide released to the atmosphere.

### Performance

With a Thermal Conductivity of 0.040 W/mK, THERMAFLEECE Hemp provides a better level of performance compared to low density insulation.

### Cost Effective

Energy savings from using THERMAFLEECE Hemp meaning it can pay for itself in a few years.

### Long Lasting

THERMAFLEECE Hemp contains a lofting agent to maintain fibre stability and structural integrity throughout.

### Sustainable

Using THERMAFLEECE Hemp can reduce your carbon emissions by many tonnes over the lifetime of use. The hemp fibres fix carbon dioxide further helping reduce greenhouse gas levels.

### Safe

THERMAFLEECE Hemp is safe to handle without the need for personal protective equipment. It can be recycled or safely disposed of at the end of its life.

## APPLICATIONS

- **Roofs** – lofts & warm roofs
- **Walls** – timber frame & solid walls
- **Floors** – suspended ground floors & between floors.

## SPECIFICATIONS

### Technical

- Thermal Conductivity: 0.040 Wm<sup>-1</sup>K<sup>-1</sup>
- Density: 25 kgm<sup>-3</sup>
- Vapour Resistivity: 9 MN·s·g<sup>-1</sup>m<sup>-1</sup>
- Water Absorption (@100% RH): 17% w/w
- Specific Heat Capacity 1800 Jkg<sup>-1</sup>K<sup>-1</sup>
- Spread of Fire to BS 5803-4: pass

Thickness mm (tolerance +/- 5mm)	Thermal Resistance Km <sup>2</sup> W
70	1.75
100	2.50
140	3.50
170	4.25
200	5.00
270	6.75

### Acoustic

- EN 11654:1997: Class A @ 100mm
- EN 11654:1997: Class A @ 70mm

### Accreditations

- Manufactured to ISO 9001 & 14001

### Environmental

- Embodied Energy (Net of Non-Fossil Feedstock Energy): 10 MJkg<sup>-1</sup>
- Recycled Content: 37.5%
- Recyclable: Yes

## TECHNICAL SUPPORT

We offer a comprehensive support to meet all your technical requirements including:

- Technical help line **0844 8009953**
- On-site and off-site support throughout the design and build process

Second Nature UK Ltd  
 Soulands Gate, Dacre, Penrith CA11 0JF  
 Tel: (017684) 86285 or email: [info@thermafleece.com](mailto:info@thermafleece.com)

- Advice on meeting current regulations including Building Regulations and Code for Sustainable Homes
- U-value and condensation risk analysis
- Advice on environmental impact
- Application guidance notes, comprehensive product data and reports

## INSTALLATION AND HANDLING

THERMAFLEECE Hemp is harmless and can be installed without gloves or protective clothing, although we recommend you wear a dust mask in enclosed spaces such as lofts.

THERMAFLEECE Hemp can be used in conjunction with a vapour permeable underlay to retain the benefits of water vapour absorption and release,

Protect the insulation from prolonged exposure to sunlight when unpacked and avoid wetting for extended periods, store under cover and clear of the ground.

THERMAFLEECE Hemp can be cut using a straight edge and a Stanley knife, or simply torn apart.

For more accurate cutting, tightly compress or clamp the insulation between two pieces of solid 15mm board. Overhang the slab where you want to cut keeping the two board edges aligned. Cut the edge with a scalloped edged knife and keep the blade firm and square against both board edges throughout.

## SIZES

### Slabs

- **Thicknesses** – 70 & 100 mm
- **Widths** – 370 & 570 mm
- **Length** – 1200 mm

### Packs

- **100 x 570 mm** – 8 slabs, 5.47 m<sup>2</sup> per pack
- **100 x 370 mm** – 8 slabs, 3.55 m<sup>2</sup> per pack
- **70 x 570 mm** – 12 slabs, 8.21 m<sup>2</sup> per pack
- **70 x 370 mm** – 12 slabs, 5.33 m<sup>2</sup> per pack

## WHERE TO BUY

Our products are available through a wide network of merchants and distributors. To find your nearest supplier visit our web site [www.thermafleece.com](http://www.thermafleece.com) or call us on 0844 8009953.

## Contact:

Second Nature UK Ltd, Soulands Gate, Dacre, Penrith, Cumbria CA11 0JF

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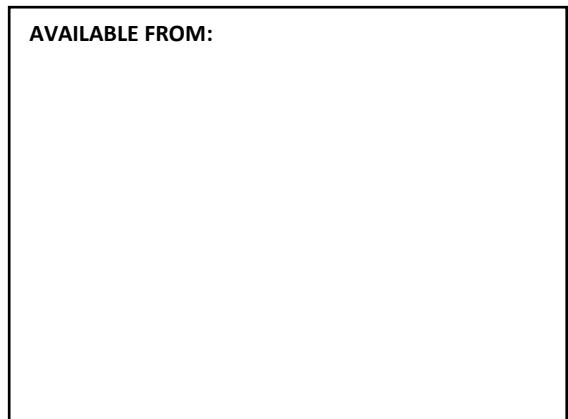
email: [info@thermafleece.com](mailto:info@thermafleece.com)

web: [www.thermafleece.com](http://www.thermafleece.com)

## TECHNICAL SALES OFFICE HELP LINE 0844 8009953

All products are supplied in accordance with Second Nature UK Ltd's terms and conditions of business, a copy of which is available on request.

## AVAILABLE FROM:



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