

All the facts...










The Original Wool Insulation

Thermafleece Original uses our original blend of 85% British sheep's wool and 15% binder fibre to provide a reliable and versatile medium density insulation rich in sheep's wool.

Thermafleece Original is available in slabs that friction fit securely between rafters, joists and studs. It is suitable for many thermal and acoustic

Like all Thermafleece products, it is long-lasting, safe to handle and can contribute to a healthier indoor environment by acting as a moisture buffer and absorbing indoor pollutants such as formaldehyde.

Key Facts

-  Width (mm) – 400, 600
-  Thickness (mm) – 50, 75, 100
-  Thermal conductivity – 0.038 W/mK
-  Sound absorption – NRC 1.00 @ 100mm
-  Highly breathable
-  Made in the UK
-  Contains British wool
-  Manufactured to ISO 9001 & 14001
-  Can be recycled

Applications

- **Roofs** – Lofts & warm roof
- **Walls** – Timber frame & solid wall
- **Floors** – Suspended ground floor & between floor

Why Insulate With Thermafleece Original?

Insulating a property will significantly reduce 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 0.038 W/mK, Thermafleece Original offers better performance than most low density insulation on the market.

Cost Effective

Energy savings from using Thermafleece Original mean it can pay for itself in a few years.

Long Lasting

Thermafleece Original will last the life of the building and contains a lofting agent to maintain fibre stability and structural integrity throughout.

Sustainable

Using Thermafleece Original can reduce carbon emissions by many tonnes over the lifetime of use. Wool fixes carbon dioxide helping reduce greenhouse gas levels.

Safe

Thermafleece Original 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.

Sizes

Slabs

- **Thicknesses** – 50, 70 & 100 mm
- **Widths** – 400 & 600 mm
- **Length** – 1200 mm

Packs

- **100 mm** – 10.08 m² per pack
- **75 mm** – 12.96 m² per pack
- **50 mm** – 20.16 m² per pack

Technical Support

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

- For technical advice call us on **01768 486285** or email enquiries@thermafleece.com
- On-site and off-site support throughout the design and build process
- Advice on meeting current regulations including Building Regulations and CFSH
- U-value and condensation risk analysis
- Advice on environmental impact
- Application guidance notes, comprehensive product data and reports

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Specifications

Technical

- Thermal Conductivity: $0.038 \text{ Wm}^{-1}\text{K}^{-1}$
- Density: 23 kgm^{-3}
- Water Absorption (@100% RH): 34% w/w
- Specific Heat Capacity: $1800 \text{ Jkg}^{-1}\text{K}^{-1}$
- Mould Resistance: CUAP Vegetable Fibre Draft 2002-01-25: Pass
- Moth/Beetle Proofing - ISO 3998: Pass
- Vapour Resistivity: $9 \text{ MN}\cdot\text{s}\cdot\text{g}^{-1}\text{m}^{-1}$
- Ignition Point: $>500^{\circ}\text{C}$
- Spread of Fire to BS 5803-4: Pass
- Recoverability and thickness to EN 823: Pass
- Dimensional stability to EN 1604: Pass
- Short term water absorption to EN 1609 method A: Pass

Environmental

- GWP (Cradle to Gate): minus $0.53 \text{ kgCO}_2\text{e}$
- Embodied Energy (Net of Non-Fossil Feedstock Energy): 6 MJkg^{-1}
- Recycled Content: 7.5%
- Recyclable: Yes

R-Values

Thickness mm (tolerance +/- 5mm)	Thermal Resistance Km^2W
50	1.32
75	1.97
100	2.63
150	3.95
200	5.26
250	6.18
300	7.42

Installation and Handling

Thermafleece Original 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 Original can be used in conjunction with a vapour permeable membrane 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.

For 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.

Where to Buy

Our products are available through a wide network of merchants and distributors. To find out more visit our web site www.thermafleece.com or call us on 01768 486285.

For technical advice call us on **01768 486285** or email enquiries@thermafleece.com.