

# Flexible Slabs



## All the facts...

Thermafleece CosyWool Slab is a versatile flexible insulation rich in British sheep's wool and is the ideal choice if you are looking for all round performance and value for money.

Research shows that using 75% wool in combination with recycled fibres outperforms alternative products with a higher percentage of wool. Our wool rich blend ensures you get the full benefit of sheep's wool with enhanced performance, durability and sustainability.

CosyWool Slabs are flexible but denser than rolls and sized to provide extra tight friction fit in walls and roofs providing excellent thermal and acoustic performance.

Like all ThermoFleece products, it is long-lasting, safe to handle and contributes to a healthier indoor environment by regulating moisture and absorbing harmful airborne substances in the home.

### Key Facts

- Width (mm) – 390, 590
- Thickness (mm) – 50, 75, 100, 140
- Thermal conductivity – 0.038 W/mK
- Sound absorption – NRC 1.05 @ 100mm
- Sound reduction – Rw 40dB @ 75mm
- Highly breathable
- Made in the UK
- Contains British wool
- Manufactured to ISO 9001
- Can be recycled

### Applications

- Roofs – Loft & warm roof
- Walls – Timber frame & solid (internal)
- Floors – All levels above DPC
- Acoustic – Walls, floors & roofs

### Why Insulate With ThermoFleece CosyWool Slab?

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.

#### Affordable

Thermafleece CosyWool Slab is designed to minimise up-front cost making wool-based insulation more affordable to a wide range of end users. What's more, the energy it saves means ThermoFleece CosyWool Slab quickly pays for itself.

#### Long Lasting

Thermafleece CosyWool Slab contains a lofting agent to maintain durability, fibre stability and structural integrity creating a long-lasting insulation.

#### Quality Assured

Thermafleece CosyWool Slab is manufactured and supplied in accordance with ISO 9001 quality management systems.

#### Sustainable

Thermafleece CosyWool Slab can reduce CO<sub>2</sub> emissions by many tonnes over the lifetime of use. What's more, wool fixes carbon dioxide helping reduce greenhouse gas levels.

#### Breathable

Insulating with breathable natural fibres can contribute to more stable humidity and moisture levels within buildings. This can help improve the health of the building and the occupants.

#### Safe

Thermafleece CosyWool Slab is safe to handle and can be recycled or safely disposed of at the end of its life.

### Technical Support

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

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

# All the facts...

## Specifications

### Performance

- Thermal Conductivity:  $0.038 \text{ Wm}^{-1}\text{K}^{-1}$
- Water Absorption (@100% RH): 30% w/w
- Specific Heat Capacity:  $1800 \text{ Jkg}^{-1}\text{K}^{-1}$
- Mould Resistance: CUAP 2002-01-25: Pass
- Moth/Beetle Proofing: ISO 3998: Pass
- Vapour Resistivity:  $9 \text{ MN}\cdot\text{s}\cdot\text{g}^{-1}\text{m}^{-1}$
- BS 5803-4, Flammability & Smoulder Resistance: Pass
- EN11925-2, Reaction to Fire: Pass
- Fire Classification: EuroClass E
- Recoverability and thickness, EN 823: Pass
- Dimensional stability to EN 1604: Pass
- Can be used to achieve airborne sound reduction of  $R_w = 40\text{dB}$

### Standards

- Manufactured to ISO 9001

### Environmental

- GWP (A1-A3):  $1.63 \text{ kgCO}_2\text{e}$
- GWP (A1-A3) inc. biogenic carbon:  $0.59 \text{ kgCO}_2\text{e}$
- Recycled Content: 20%
- Recyclable: Yes

### Sizes

- **Thicknesses** – 50,75,100,140 mm
- **Widths** – 390 & 590 mm
- **Slab Length** – 1200 mm, all sizes

### R-Values

Thickness mm (tolerance +/- 5mm)	Thermal Resistance $\text{Km}^2\text{W}$
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 CosyWool is non-hazardous and can be handled without protective clothing, although we recommend you wear PPE in spaces such as lofts.

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

If the insulation gets wet during storage or as a result of flooding in service, remove the affected insulation and replace with new.

When installed in walls and floors, spaces filled with CosyWool should be considered as concealed voids for the purposes of fire risk and cavity barriers installed as appropriate. Thermafleece CosyWool is not suitable for use as a cavity barrier.

Thermafleece can be safely and easily torn apart, but if you need a more accurate edge then we recommend the 'Roll and Cut' Method. Tools Required: Sharp Scalloped Edge Knife or Insulation Saw

1. For an accurate length. Roll the insulation as tightly as possible along the width. Measure where you need to cut then taking the insulation saw / knife easily cut through. This provides a nice, neat edge and is an alternative to tearing by hand.

2. To cut the width of the roll: Keep the insulation rolled and do not unwind. Measure the required width that you need then using the knife or insulation saw begin to cut through the whole roll.

You can also cut Thermafleece by tightly compressing or clamping the insulation between two pieces of solid 15mm board. Overhang the fleece where you want to cut keeping the two board edges aligned. Saw cut the edge using a sharp, scalloped edged knife and keep the blade firm and square against both board edges throughout. Trim any fine remaining fibres with large scissors or shears.

### 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](http://www.Thermafleece.com) or call us on 01768 486285.