Factsheet

British Made, British Wool

Thermafleece UtraWool is British Made, British Wool Insulation. The result of 25 years spent perfecting the balance between nature's best materials and modern science, it delivers lasting performance that is as good for your home as it is for the planet.

Thermafleece UltraWool is our denser insulation slab that is designed for use where space is limited. The insulation is designed to friction fit comfortably between studs and rafters. The lower thermal conductivity can help achieve lower U-values, and improved acoustic performance at relatively low thicknesses.

Best For

- Walls - Between studs.
- Warm Roofs – Between and under rafters

Key information

- Best for walls and warm roof
- Breathable
- Made from British wool
- Made in Britain
- Long lasting
- Recyclable
- Quality assured
- Width (mm) – 370, 570
- Thickness (mm) – 50, 70, 90

Help your building breathe

Buildings like to breathe and, unlike synthetic materials, wool is naturally designed to be truly breathable. It doesn't just sit there; it works hard. It absorbs and releases moisture, helping manage humidity levels. Keeping your home warm in the winter and cool in the summer.

The Power of the "Carbon Sink"

Think of your UltraWool Insulation as a secret weapon against climate change. It's a simple cycle: grass captures carbon, sheep eat the grass to grow wool, and we turn that wool into insulation. By putting UltraWool in your home, you're locking that carbon away for decades.

Built to Last

We've all seen old insulation that looks flat. To prevent that, we take our British wool and bond it together. This keeps the wool bouncy and perfectly in place, so it won't slump. It's the "Science meets Nature" secret that ensures your energy bills stay lower for a lifetime.

Helping Make Homes Healthy

Wool is a natural filter. It actually captures and "traps" many common indoor pollutants and chemicals, acting like a silent air purifier for your building fabric.

Kind to You, Kind to Farmers

We source our wool from British farmers who meet world-class animal welfare standards. Because it's local, it doesn't travel across the globe to get to you, keeping the "carbon miles" as low as possible.

Help and Advice

We know that choosing insulation is a significant decision. Whether you need deep technical support or simple, honest guidance, our team is here for you.

Our advice is backed by decades of expertise and a genuine desire to help you build a more sustainable future.

Eden Renewable Innovations Ltd
Sales & General Enquiries: **017684 86285** | **enquiries@thermafleece.com**

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Specifications

Performance

- EPD registration no. S-P-04468
- EPD valid to 31/10/26
- Fire Classification: EuroClass E
- Flammability & Smoulder Resistance (BS 5803-4): Pass
- Manufactured to ISO 9001 & 14001
- Moth/Beetle Proofing: ISO 3998: Pass
- Recoverability and Thickness (EN 823): Pass
- Recyclable
- Recycled Content: 20%
- Sound Absorption: NRC 1.1 @ 90mm
- Sound Reduction: Rw 41dB – 54dB @ 70mm
- Specific Heat Capacity: 1800 $Jkg^{-1}K^{-1}$
- Thermal Conductivity: 0.035 W/mK
- Vapour Resistivity: 9 $MN{\cdot}s{\cdot}g^{-1}m^{-1}$
- Water Absorption (@100% RH): 24% w/w

Sizes

- Thicknesses (mm) tolerance +/- 5mm – 50, 70, 90
- Widths (mm) – 370, 570
- Slab Length (mm) – 1200

R-Values

Thickness (mm)	Thermal Resistance (Km^2W)
50	1.43
70	2.00
90	2.57
100	2.86
140	4.00
150	4.29
190	5.43
240	6.86

Climate Impact

	Cradle to Gate Impact	Product Lifecycle	Product Carbon Footprint
Standard	EN15804	EN15804	PAS 2050*
Stage	A1-A3	A1-C4	60 year service life
Units**	0.05 kg CO_{2e}	1.44 kg CO_{2e}	0.64 kg CO_{2e}

*Greenhouse gas emission calculated by Eden Renewable Innovations Ltd in accordance with PAS 2050, self declared

**Functional unit: 1 m^2 R 1m^2K/W

Installation and Handling

Thermafleece UltraWool is non-hazardous and can be handled without protective clothing, although we recommend you wear PPE in areas where other hazards are present.

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.

Acoustic Absorption

Thickness	Weighted Sound Absorption Rating a_w	NRC	Class
(mm)	EN ISO 11654:1997	EN ISO	ASTM C 423-01
50	0.85	0.85	B
90	1.00	1.10	A

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