

# Factsheet












Thermafleece CosyWool Roll is a versatile 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 Roll's convenient compressed form reduces transport impacts by more than 50% compared to other natural insulation and makes it ideal for quick and easy installation. Once unpacked, it regains its original thickness to provide excellent thermal and acoustic performance.

Like all Thermafleece 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 Information

-  Width (mm) – 300, 370, 400, 570
-  Vapour open
-  Thickness (mm) – 25, 50, 75, 100, 140, 150
-  Thermal conductivity – 0.039 W/mK
-  Sound absorption – NRC 1.05 @ 100mm
-  Recyclable
-  Manufactured to ISO 9001 & 14001
-  Made in the UK
-  Made from British wool
-  Contains recycled materials – 25%
-  Highly breathable

## Best For

- Floors – All levels above Damp-Proof Course
- Lofts – Cold roofs
- Warm Roofs – Pitched roof or attic conversions
- Walls – Timber frame & solid (internal)

## Why Insulate with Thermafleece CosyWool Roll?

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

CosyWool Roll 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 Thermafleece CosyWool quickly pays for itself.

## Long Lasting

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

## Quality Assured

Thermafleece CosyWool Roll is manufactured and supplied in accordance with ISO 9001 qms.

## Sustainable

Thermafleece CosyWool Roll 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 Roll 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

## Specifications

### Performance

- Dimensional Stability to EN 1604 – Pass
- 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
- Mould Resistance: CUAP 2002-01-25 - Pass
- Recoverability and Thickness (EN 823) - Pass
- Recyclable
- Recycled Content – 20%
- Sound Reduction -  $R_w = 40\text{dB}$
- Specific Heat Capacity -  $1800 \text{ Jkg}^{-1}\text{K}^{-1}$
- Thermal Conductivity -  $0.039 \text{ Wm}^{-1}\text{K}^{-1}$
- Vapour Resistivity -  $9 \text{ MN}\cdot\text{s}\cdot\text{g}^{-1}\text{m}^{-1}$
- Water Absorption (@100% RH) – 30% w/w

#### Climate Impact

	Cradle to Gate	Product Lifecycle	Carbon Footprint
<b>Standard</b>	EN15804	EN15804	PAS 2050
<b>Functional Unit</b>	1 m <sup>2</sup> R 1m <sup>2</sup> K/W		
<b>Stage</b>	A1-A3	A1-C4	60 year service life
<b>Units</b>	0.05 kg CO <sub>2e</sub>	0.95 kg CO <sub>2e</sub>	0.40 kg CO <sub>2e</sub>

#### Acoustic Absorption

Thickness	Weighted Sound Absorption Rating $\alpha_w$	NRC	Class
(mm)	EN ISO 11654:1997	EN ISO 11654:1997	ASTM C 423-01
50	0.65	0.7	C
75	0.85	0.85	B
100	1	1.05	A
140	1	1	A

#### Sizes

- Thicknesses (mm) tolerance +/- 5mm – 25, 50, 75, 100, 140, 150
- Widths (mm) – 370 & 570
- Roll Lengths – 12.0m (25mm) 13.0m (50mm), 8.5m (75mm), 6.5m (100mm), 4.6m (140mm), 4.3m (150mm)

#### R-Values

Thickness (mm)	Thermal Resistance (Km <sup>2</sup> W)
25	0.63
50	1.25
75	1.88
100	2.50
140	3.50
200	5.00
250	6.25
280	7.00
300	8.40

#### Installation and Handling

Thermafleece CosyWool Roll 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 Roll should be considered as concealed voids for the purposes of fire risk and cavity barriers installed as appropriate. Thermafleece CosyWool Roll is not suitable for use as a cavity barrier.

For cutting information visit the Thermafleece CosyWool Roll product page on the website or take a look at the video on [YouTube](#).

#### 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.



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For over 20 years, Ecological Building Systems has been at the forefront of environmental and sustainable building products supplying a range of innovative airtightness solutions and natural insulations backed up with expert technical support.

**As product suppliers in the UK and Ireland, we're happy to assist you with your projects and have expert technical and sales advice on hand.**



**Call us**

**Great Britain** +44 (0)1228 711511

**Ireland** +353 46 9432104



**Email us**

[info@ecologicalbuildingsystems.com](mailto:info@ecologicalbuildingsystems.com)



**Find us**

**Great Britain** Ecological Building Systems UK Ltd.,  
Cardewlees, Carlisle, Cumbria, CA5 6LF,  
United Kingdom

**Ireland** Ecological Building Systems Ltd.,  
Main Street, Athboy. Co. Meath, C15 Y678,  
Republic of Ireland