

# Product Range

Second Nature UK Ltd

INSULATION WITH INTEGRITY

## Thermafleece

Thermafleece has been the UK's first choice of sheep's wool insulation since it was launched in 2001. Thermafleece is a high density, wool rich insulation that is the first choice when maximum thermal and acoustic performance and breathability are required or in space limited situations.

Manufactured to meet the highest quality and performance standards and using British sheep's wool, Thermafleece is the only wool based insulation to hold BBA certification.

Thermafleece has a thermal conductivity of 0.039 W/mK and is available in a variety of dimensions suitable for all your application needs.

Thermafleece is supplied in slab form with standard lengths of 1200mm with three thicknesses, 50mm, 75mm and 100mm and two widths, 400mm and 600mm.



## Thermafleece PB20

Thermafleece PB20 is a lower density, compressed roll insulation that is easy to handle and install in confined spaces such as lofts. Thermafleece PB20 contains a lower quantity of wool than Thermafleece (60% compared to 85%).

Because Thermafleece PB20 is compress packed, it is necessary to incorporate a proportion of recycled polyester fibres to ensure the insulation regains its full thickness when un-rolled.

Compressing the rolls by approximately 60% significantly reduces the impact of transporting the finished product and nearly halves the required storage space for the same volume of insulation.

Thermafleece PB20 has a thermal conductivity of 0.042 W/mK and is available in roll form in widths of 370mm and 570mm to enable quick and easy installation. Each roll contains a single 5.3m length of insulation and is available in a thickness of 70mm and 100mm.



## Thermafleece or Thermafleece PB20?

The table below provides guidance to help you choose the most appropriate product for your requirements. Please refer to our application notes or call us if you require further advice.

Requirement	Thermafleece	Thermafleece PB20	Comment
Thermal Performance	<b>BEST</b>	<b>GOOD</b>	The thermal performance of Thermafleece is 7% greater than Thermafleece PB20 reducing the required thickness by 7% on a like for like basis. When space is at a premium, using Thermafleece or a combination of both products is advisable.
Acoustic	<b>BEST</b>	<b>GOOD</b>	Thermafleece has a density of 25 kg/m <sup>3</sup> giving Thermafleece excellent acoustic properties. In situations where acoustic performance is critical Thermafleece will provide the best performance.
Moisture Control	<b>BEST</b>	<b>GOOD</b>	Thermafleece contains more than 21kg of wool per cubic meter, more than any other wool based insulation on the market. This means typical 250mm layer of Thermafleece is capable of absorbing more than 2 kg of moisture without any significant loss in thermal performance. An equivalent layer of Thermafleece PB20 (70mm) is capable of absorbing .900gms of moisture.
Transport	<b>GOOD</b>	<b>BEST</b>	Thermafleece PB20 is compressed by 60%. Because insulation is a bulk material, compressing it by as much as 60% can reduce the fuel consumption transporting finished goods by more than 50%.
Storage and Handling Limitations	<b>GOOD</b>	<b>BEST</b>	Thermafleece PB20 requires less storage space and with a diameter of 45cm and length of 1.1m, packs of insulation can be easily moved through confined points such as loft hatches.
Loft Situations	<b>GOOD</b>	<b>BEST</b>	Thermafleece PB20 can be quickly unrolled in loft situations. With thicknesses of 370mm and 570mm, Thermafleece will fit easily between joists.
Walls	<b>BEST</b>	<b>GOOD</b>	With widths of 400mm and 600mm Thermafleece friction fits, providing a tighter fit making installation easier. However, once in-situ both Thermafleece and Thermafleece PB20 will remain in position during service. Before installing Thermafleece PB20 in a vertical wall situation, allow the insulation to regain its thickness.

### Thermafleece pack sizes

Batt Dimensions (mm)	Density (Kg/ m <sup>3</sup> )	m <sup>2</sup> per Pack	Pack Volume (m <sup>3</sup> )	Pack Weight (Kg)
50 x 400 x 1200	25	20.16	1.008	25.2
50 x 600 x 1200	25	20.16	1.008	25.2
75 x 400 x 1200	25	12.96	0.972	24.3
75 x 600 x 1200	25	12.96	0.972	24.3
100 x 400 x 1200	25	10.08	1.008	25.2
100 x 600 x 1200	25	10.08	1.008	25.2

### Thermafleece PB20 pack sizes

Dimensions per Roll (mm)	Rolls per Pack	Density (Kg/ m <sup>3</sup> )	m <sup>2</sup> per Roll	m <sup>2</sup> per Pack	Pack Volume (m <sup>3</sup> )	Pack Weight (Kg)
370 x 100 x 5300*	3	20	1.96	5.86	0.177	11.8
570 x 100 x 5300*	2	20	3.02	6.04	0.181	12.1
570 x 70 x 7600*	2	20	4.33	8.66	0.181	12.1

\*Insulation is compressed, allow up to 5 days for the unrolled insulation to regain its thickness.

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