



THERMAFLEECE®

SHEEPSWOL THERMAL AND ACOUSTIC INSULATION

Technical Information

ThermaFleece insulation batts are ideal for use in both new-build and refurbishment projects. Applications include insulation of, walls, ground floors and intermediate floors.. The product is environmentally friendly and safe to handle. The sizes offered allow many combinations of thicknesses and widths to be selected.



Installing ThermaFleece in a new home

ThermaFleece insulation batts from nbs

Please note, batts in the quantities shown below are supplied as palletised packs

ThermaFleece Batt thickness & width mm	1x batt area m ²	Number of batts per pack	Area of batts per pack m ²	Pack weight kg	Order Code
50 x 400	0.48	42	20.16	25.2	PN50400
50 x 600	0.72	28	20.16	25.2	PN50600
75 x 400	0.48	27	12.96	24.3	PN75400
75 x 600	0.72	18	12.96	24.3	PN75600
100 x 400	0.48	21	10.08	25.2	PN100400
100 x 600	0.72	14	10.08	25.2	PN100600

All ThermaFleece batts are 1200mm long



Delivery

Please note, the ThermaFleece batts are delivered as palletised packs only.

Whole packs must be purchased – loose batts are not available from nbs.

Technical Information

ThermaFleece is harmless and can be handled without gloves or protective clothing. It is not irritating to the skin, eyes or respiratory tract and causes no discomfort to site workers during installation. Being a natural material any fibres which happen to reach the living space will present no hazard to health. The necessary insect proofing and fire resistance rating is achieved by the inclusion of naturally derived additives.

SAFETY NOTE: Lofts in old buildings can be very dusty, so it is wise to wear a breathing mask and protective clothing when installing the product in confined areas. Where ThermaFleece batts are being installed over existing fibrous insulation it is essential a dust mask is worn to prevent inhalation of existing dust particles.

The low thermal conductivity of ThermaFleece (0.039W/m.K) compares favourably with that of other fibrous Insulation products. The product contains a necessary lofting agent to maintain fibre stability. The product is manufactured in batts of 1200 mm long in various thicknesses and widths. Choose the thickness or combination of thicknesses to achieve the necessary U-value for the structure required by the current Building Regulations. A guide for specifying ThermaFleece loft insulation for cold roof application is provided on the last page in this publication.

Your architect or building contractor should advise on the mandatory U-values required. A ThermaFleece technical sales office helpline is available –see below.

Fire Resistance

Wool has a higher fire resistance than cellulose and cellular plastic insulating materials. ThermaFleece does not burn but rather melts away from an ignition source and extinguishes itself. The product is treated with a natural fire-proofing agent to further improve its intrinsic fire resistance and complies with BS 5803-4 (Spread of Fire) achieving results of Class 0 (Zero) for ignitability, spread of flame and heat evolved.

Acoustic Properties

ThermaFleece has been tested for its acoustic properties, which means that it can be specified as part of your noise control scheme.

A full acoustic report is available in the nbs library.

Technical Service and Helpline

For general enquiries about the application and installation of ThermaFleece insulation email sales@nbs-home.co.uk .

Copies of the BBA Certificate and relevant performance reports are available in the **nbs** library.

Second Nature UK Ltd is also pleased to provide technical advice on how to incorporate ThermaFleece into different forms of constructions, for both refurbishment and new self-build projects.

A technical sales office help-line 0870 2406715

Computer U-value and condensation risk analysis calculations

Samples of ThermaFleece.

Help and advice on meeting the requirements of Building Regulations.



Performance Testing –International Standards	
Energy consumption in manufacture	14.6MJ/kg or 136MJ/m ³
Thermal conductivity	0.039W/m.K
Thermal resistance	<i>Single thicknesses...</i> 50mm thick = 1.25Km ² /W 75mm thick = 1.90Km ² /W 100mm thick = 2.55 Km ² /W <i>Combined thicknesses...</i> 150mm thick = 3.80 Km ² /W (2 x 75mm and 1 x 50mm) or (1 x 100mm and 1 x 50mm) 250mm thick = 6.35 Km ² /W (2 x 100mm and 1 x 50mm)
Water absorption (At 100% RH)	40%
Mould resistance	CUAP Vegetable Fibre Draft 2002-01-25
Moth/beetle proofing	Based on ISO 3998
Ignition point	560°C
Spread of fire	Class 0 BS5803-4

Extremely Durable

ThermaFleece fibre adapts to the shape of joists to provide a permanently tight fit. Properly installed, the product will retain its low density and thermal performance - with a life expectancy similar to that of the construction in which it is installed.

Recyclable

At the end of its useful life, ThermaFleece batts can be recycled for other environmentally friendly applications. The product contains no permethrin, pyrethroids, pesticides or formaldehydes.



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ThermaFleece insulation products conveniently available from:

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build
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