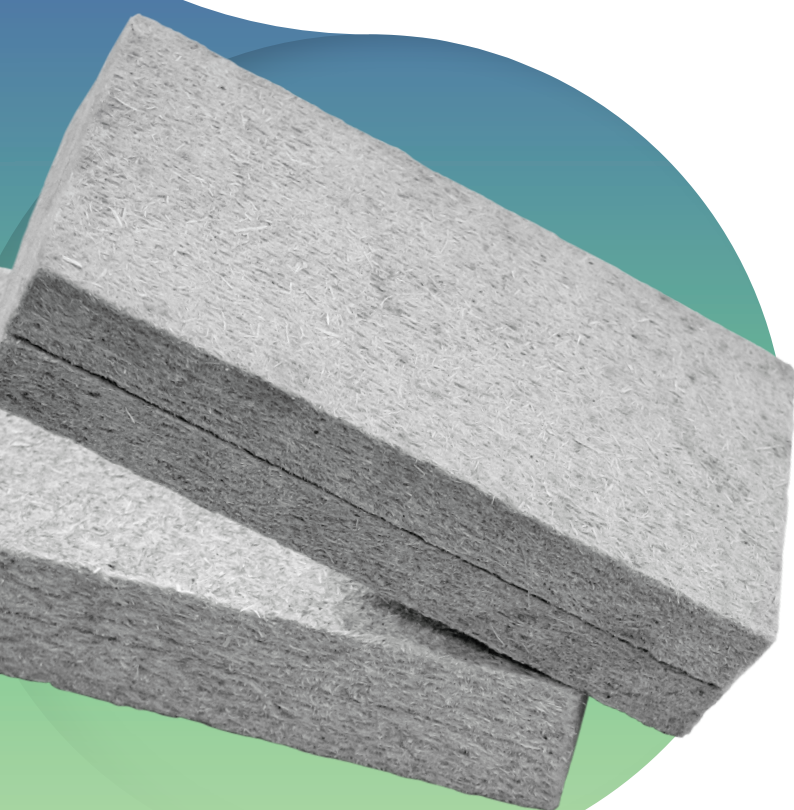


# GRWNwarm®



**GRWNwarm® insulation batts are a versatile and sustainable solution for building insulation. Made from industrial hemp grown in the UK, these batts offer a range of benefits for both installers and building occupants.**

Unlike traditional insulation materials, GRWNwarm® is healthy and soft to the touch, making it easy to handle and install. It also has a net negative embodied carbon, meaning that it actually reduces carbon emissions when used in buildings. In addition, GRWNwarm® has exceptional vapour transport properties, helping to keep buildings dry and healthy.

## Available formats\*

Dimensions (mm)	Thicknesses (mm)
370 x 1200	50, 80, 100 or 140mm
440 x 1200	50, 80, 100 or 140mm
570 x 1200	50, 80, 100 or 140mm

\*other sizes may be available on request

## Technical data

Thermal Conductivity $\lambda$	0.040 W/m.K
Bulk Density $\rho$	45 kg/m <sup>3</sup>
Specific Heat Capacity C	2100 J/(kgK)
Vapour Diffusion Resistance $\mu$	2
Carbon (net negative)	-0.70 kgCO <sub>2</sub> eq/kg

## Storage and Handling

Keep dry during storage and delivery.

Pallets must not be stacked.

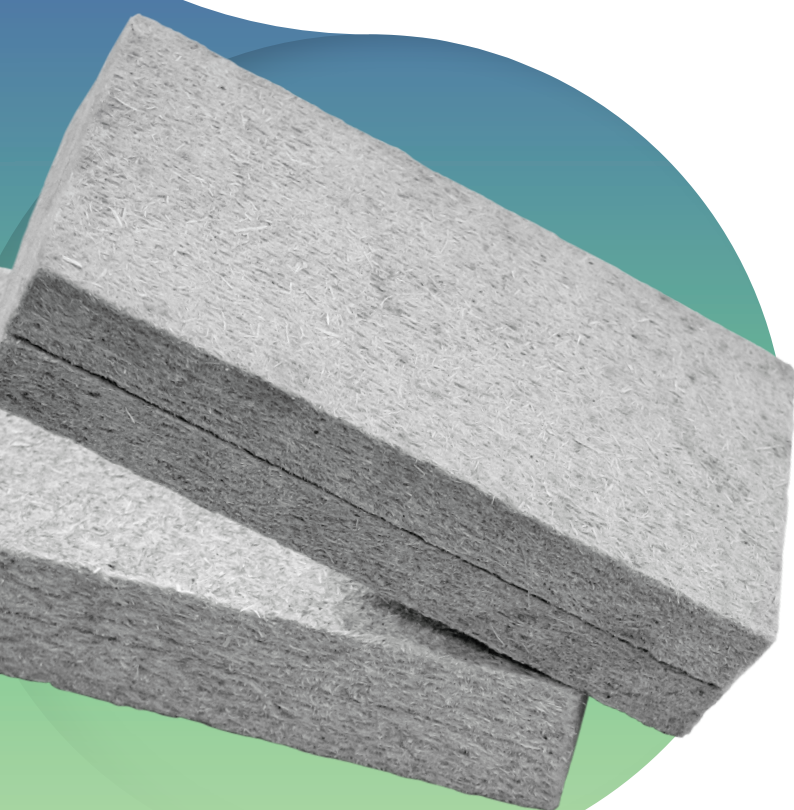
## Installation

Refer to installation guide for recommendations. Friction fit between structural framing or against masonry. Best cut with 'wavy' insulation blades – available as handsaws or powered dual-blade reciprocating saws. Our team is happy to advise.

## Environmental impacts

GRWNwarm has a net storage of carbon. It reduces waste because it can be reused at end of life or offcuts can be shredded and made into more of the same product.

# GRWNwarm®



GRWNwarm® insulation batts are also effective at regulating temperature and humidity, keeping indoor spaces comfortable year-round.

They promote healthy indoor air quality and have been tested for durability under extreme conditions. Finally GRWNwarm® has exceptional rigidity, which helps to prevent slumping over time.

Whether you're retrofitting a traditional building or constructing a new one, GRWNwarm® insulation batts are an excellent choice for healthy, sustainable, and effective insulation.

## Who is GRWN Group?

GRWN Group is a cleantech company, specialized and working at every level across the UK industrial hemp industry. For several years, we have been positioning ourselves as industry leaders and innovators across the sector. Our objectives are much like our product – simple, natural, and good for the environment. Change doesn't happen overnight, but we're already well on our way to realising our ambitions, having laid the groundwork to have a real impact on the environment and construction industry.

## Declaration of Performance

	Standard	Performance	Notes
Durability	BS 5250:2011 +	No physical transformation or loss of thermal performance	Code of practice for control of condensation in buildings. Products exposed to extreme T and RH in climate chamber.
Thermal Conductivity	BS ISO 9869 - 1:2014	0.040 W/mK	Measured thermal conductivity
Vapour Permeability		2	
Fire Rating		E	Euroclass fire rating.
Bulk Density		45 kg/m <sup>3</sup>	
Specific Heat Capacity		2100 J/(kg.K)	