



Upcycled insulation made from natural jute fibres



Description:

THERMO JUTE 100 is made using recycled jute fibres from cocoa and coffee bags, a unique and perfect example of upcycling. THERMO JUTE 100 is available in batt form with a range of thicknesses from 30mm to 220mm and two widths, 375mm and 580mm. A selected range of thicknesses are available from our stock in Cumbria, with non-stock items on request.

With a thermal conductivity of 0.038 W/mK, THERMO JUTE 100 possesses outstanding thermal insulation properties making it one of the most cost effective insulations available on the market. It has a bulk density of between 34-40 kg/m³ making it an ideal solution in timber frame walls. THERMO JUTE 100 offers an all round performance of thermal insulation, thermal mass and high density.

THERMO JUTE 100 has the ability to store heat, generated by solar radiation as it penetrates the structure of a building, and then releases it at a controlled rate. This leads to a much more comfortable internal living environment keeping the building warm in winter and cool in summer.

THERMO JUTE 100 also features outstanding sound absorption properties.

Stock held in Cumbria for distribution throughout the UK

Thickness	Length of Batt	Width of Batt	Batts per pack	m ² per pack
100mm	1200	375	8	3.60
140mm	1200	375	6	2.70
40mm	1200	580	15	10.440
100mm	1200	580	6	4.176
140mm	1200	580	3	2.088

(other thicknesses available on request between 30mm and 220mm)

THERMO JUTE 100 NATURAL INSULATION

Product Summary

- Jute is a natural raw material.
- Made from discarded cocoa and coffee bags, a perfect up-cycled product.
- Preservation of limited raw materials.
- Low energy requirement during manufacture and 100% eco electricity.
- Very good insulating properties.
- Extremely high thermal resistance.
- It has the ability to absorb and release moisture without affecting thermal performance.
- It has a high thermal mass.
- Compatible with diffusion open construction.
- It has effective acoustic properties.
- Good fire protection.
- It is not affected by mould growth or insect attack as the fibre does not contain proteins.
- Lightweight – easy to handle, flexible and convenient to install.
- THERMO JUTE 100 does not slump, ideal in timber frame walls.
- Does not cause irritation.
- No chemical additives.
- European Technical Approval.
- Extremely durable.
- Cost Competitive natural insulation.
- THERMO JUTE 100 creates a natural, healthy, living climate.



Areas of application

THERMO JUTE 100 can be installed between rafters, ceiling joists, floor joists, partitions and stud walls. It can also be applied between internal and external walls of timber frame structures.

Installation of THERMO JUTE 100

THERMO JUTE 100 is non-toxic and non-irritant to eyes and skin. A small amount of jute fibres may be released when installing THERMO JUTE 100 and due to the dusty nature of attics etc, we recommend that a dust mask should be worn during the installation process. When installing THERMO JUTE 100 over head protective goggles may also be required.

When laying THERMO JUTE 100

In attics where the insulation is installed between joists ensure ventilation openings at the eaves of the roof are not covered. Any electrical cables running across the joists should be maintained above the THERMO JUTE 100. The area under storage tanks should not be insulated. The tank itself may be insulated with THERMO JUTE 100.

Cutting THERMO JUTE 100

Small Quantities

THERMO JUTE 100 can be cut to size with simple cutting tools (e.g. a long blade with a wave-like serration provides the best results).

Large Quantities

For this purpose an electric handsaw with a wave-like serration blade will give you the best results. (Bosch GFZ 16-35 AC).



Discarded cocoa and coffee bags, a perfect up-cycled product.

Technical Data:

European Technical Approval – ETA
14/0479

Components – 85-90% jute fibres, 8-10% bi-component fibres PE-based, 2-5% soda ash fire proofing

Bulk Density – Approx. 34-40 kg/m³

Thermal Conductivity – 0.038 W/mK

Specific Thermal Capacity – 2350 J/(kg/K)

Water vapour diffusion resistance coefficient μ - 1 to 2

Length related flow resistance (Sound Insulation) – 3.4 kPa.s/m²

Fire protection – B2 Class E

Max. Processing Temperature - 120°C

Sensitivity to Mould Fungus (according to EN ISO 846) – 0 – No mould fungus growth identifiable

Manufactured in Germany



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