

Flachshaus insulation plate: product characteristics

The Flachshaus insulation plate is made entirely from flax fibres, making it an excellent and environmentally friendly insulation product. The general characteristics of the product are outlined below:

- The product has been tested, approved, and accredited by the German building authority
- Plates are highly elastic without compromising their dimensional stability
- Product installation is relatively overhead free as there is generally no need for staples or supportive grooves to hold the product in place
- The product plates are easy to cut and do not crumble
- No protective clothing required as the product consists of skin-friendly natural fibres
- The product consists of natural ingredients only (contains no crude oil products)
- The product is made using a natural binder (potato starch)
- No addition of any synthetically sustained fibres (e.g. polyester, resins)
- Extremely suitable for diffusion-open insulation systems; the products humidity regulating characteristics create a healthy living climate
- The product provides very good heat and sound insulation; the insulation material conforms with the heat conductivity product-group WLG 040 (insulation material conforming to WLG 045 e.g. hemp-based products in contrast 13% more insulation material is required to achieve the same level of insulation)
- The high specific heat capacity of 1600J/kgK provides very good heat protection throughout the summer (in contrast: insulation materials made from mineral fibres have a specific heat capacity of only 800 J/kgK)
- The insulation plate is stable up to a temperature of 180° C (in contrast: insulation materials containing synthetic fibres are only stable up to 80° C)
- No chemical wood preservation necessary (Hazard class 0 according to DIN 68800-2)
- The production process is characterised by low CO₂ emissions and limited energy usage
- The product is 100 % recyclable and can be composted (no hazardous waste in case of disposal)
- A leading German product-test journal “ÖKO-TEST” rated the Flachshaus insulation plate as “very good” (the journal deals with testing of various products the result appeared in their recent annual: ÖKO-TEST 2006 Jahrbuch Bauen, Wohnen & Renovieren).



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Delivery details:

- The product is distributed via a contracted forwarding agents. Depending on the customers preferences the product is delivered to either a predestined storage facility or directly to a building site. Any such arrangements can be made by phone or fax. Small amounts of insulation material can be delivered by courier.
- In special circumstances (and sufficiently large volumes) a short-term delivery of insulation plates is possible
- The rental of tools required for installation is also possible
- The product can be delivered in a mixed pallet containing other products from our range
- The product is delivered in rain protective packaging

Any related building physics calculations, such as steam diffusion rate or the μ value etc., are available on request.

If you have any further question relating to this or any of our other products please do not hesitate to contact us.

Kind regards
Flachshaus GmbH

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