

Insulation board by Typha Technik

What is Paludiculture?

Is the productive use of wet peatland sites - In particular, agricultural and forestry production on rewetted organic soils while preserving the peat deposits.

Why Cattail?

Cultivation of Cattail (*Typha latifolia* or *T. angustifolia*) is a site-appropriate alternative on rewetted peatlands and has many advantages:

- Maintenance of productive land
- Climate protection by conservation of the peat carbon stock
- Water protection by retention of nutrients
- Sustainable resource production
- Strengthening of regional added value
- Protection of species by creation and conservation of habitat

Cattail as insulation material

- high stability with good insulation properties combined
- good fire and sound protection and summer thermal insulation
- renewable building material with very high mould resistance
- easy processability with all common tools
- comparatively open to diffusion and capillary-active
- low energy consumption during production
- good returnability into the natural matter cycle

Product properties

Cultivation and harvest	
Raw material harvest:	Mowing in winter
Yield:	15-20t dry matter
Production	
Producer:	typha technik Naturbaustoffe & Fraunhofer Institute for Building Physics IBP, Germany
Pilot or serial production:	production upon request and order
Place of production:	Schönau, Germany
Product properties	
Material/Compound material:	magnesite-bound cattail chips
Dimensions:	2500 x 1000 x 40 bis 120 mm
Insulation value:	0,048 – 0,060 W/mK
Fire protection:	naturally flame retardant properties
Moisture regulation:	capillary active, moderate diffusion openness
Recyclability:	fully recyclable & compostable
Stability:	self-supporting
Allergy compatibility:	very good
Resistance against mould:	high
Price:	310€/m ³ depending on board thickness

Status 1/2022



Pictures: Typha Technik

Further information

paludiculture
<https://lmy.de/KGYpR>



developer
<https://lmy.de/Xgof8>



Comment on the product

The presented product is currently not serially produced in big charges due to a lack of raw materials caused by a scarcity of cattail cultivation and obstacles in the agricultural subsidy policy.