

# Cattail insulation filling by Naporo

## 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 and Common Reed?

**Cultivation of Cattail (*Typha latifolia* or *T. angustifolia*) and Common Reed (*Phragmites australis*) 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 habitats



Picture: Kjetil Lenes



Picture: 3N Kompetenzzentrum

## Cattail and Common Reed as insulation material

- good fire and sound protection and summer thermal insulation
- comparatively open to diffusion and capillary-active
- low energy consumption during production
- good returnability into the natural matter cycle

## Product properties

<b>Resource</b>	
Raw material harvest:	Mowing in winter
Origin:	Origin variable
Yield:	5 – 20 t/ha/a
Area of application:	Interior and roof insulation
<b>Production</b>	
Producer:	Naporo Klima Dämmstoff Ltd
Place of production:	Braunau am Inn, Austria
<b>Product properties</b>	
Material/Compound material:	Cattail and Reed chaff + ammonium salt
Construction material class (DIN 4102):	B2
Diffusion resistance:	2
Thermal conductivity:	0,040 W/mK
Special thermal conductivity:	>1500 J/kgK
Compression:	Ceiling: 80 kg/m <sup>3</sup> ; wall/roof: 90 kg/m <sup>3</sup>
Recyclability :	fully recyclable & compostable
Carbon Footprint:	low emissions during harvest and production

Status: 1/2022



Picture: Naporo

## Comment on the product

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

## Further information



paludiculture

<https://kurzelinks.de/0inc>



product

<https://kurzelinks.de/fvf1>