

Insulation batts by Gramitherm[®]

What is paludiculture?

(*palus* – lat.: marsh) Is the productive use of wet peatland sites - In particular, agricultural and forestry production on rewetted organic soils while preserving the peat deposit. Under ideal conditions, formation of peat can regenerate. The above-ground biomass of common reed, sedges, black alder, reed canary grass and other paludiculture plants is harvested as a renewable resource and used materially, energetically or as animal fodder.



Picture: T. Dahms

Why hay from wet meadows?

Management of wet meadows 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 structures



Picture: T. Dahms

Insulation batts from wet meadow hay as construction material

- very good thermal insulation
- comparatively open to diffusion and capillary-active
- material fully recyclable & compostable
- low energy consumption during production
- good returnability into the natural matter cycle
- storage of CO₂
- easy handling



Picture: Gramitherm

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Product properties

Resource	
Raw material harvest:	1 – 2 mowing cycles
Area of application:	Interior and exterior insulation, roof insulation
Production	
Producer:	Gramitherm Europe SA
Pilot- or serial product:	Serial production
Product properties	
Material/Compound material:	Meadow grasses 90 % – synthetic fibres 10 %
Assessment:	European technical assessment ETA-21/0260
Dimensions:	1200 x 600 x 45 bis 240 mm
Thermal conductivity:	0,041 W/mK
Density:	40 kg/m ³
Allergy compatibility:	very good
Resistance against mould:	no growth according to DIN IEC 68-2-10
Noise protection:	good
Fire index:	AEAI: 5.3 EUROCLASS: E
Recyclability:	fully recyclable & compostable
Price:	4,20 €/m ² - 25 €/m ²
Carbon Footprint:	very low emissions during harvest and production

Status: 1/2022

Comment

Gramitherm Europe SA currently produces insulation batts largely from meadow hay. Wet meadow hay in 1-2 cuts from paludiculture sites would be well suited for this purpose as well. The proportion could increase accordingly in the future. Due to this potential, we present the insulation batts of Gramitherm Europe SA in the series of factsheets on building materials from paludiculture. The existing data currently only refers to meadow hay.

Further information

paludiculture

<https://lmy.de/KGYpR>



product

<https://lmy.de/AVWax>



producer

<https://lmy.de/M3XNh>

