



**GRAMITHERM®**  
Sustainable Grass Insulation

Produire local  
Isoler local\*

Limiting environmental impact of buildings during construction or renovation is a goal of the utmost importance in order to reach carbon neutrality in 2050. For this purpose, we would like to introduce you to the **thermal insulation made of grass fibres: Gramitherm®**.

- ✓ Grass grows almost everywhere and renews very rapidly. Gramitherm® is produced from 'lost' or 'waste' grass (from the road side, airport, etc). Such a grass does not need to be cultivated (it does not require to use farmland nor watering), it is not intended for animal feeding and its transformation into insulating material allows the preservation of forest resources. *It provides an example of circular economy.*
- ✓ Grass absorbs a huge quantity of CO<sub>2</sub>, our fibre production process is virtuous and the manufacture of the panels produces a low grey energy: the combination of these elements generates a negative carbon balance (*1 kg of Gramitherm® stores 1,5 kg of CO<sub>2</sub>-eq*), which is INIES-based certified and the best in its category.
- ✓ Gramitherm® is a *good insulator against cold and summer heats*, it *regulates moisture* and is therefore not destroyed by its action. It brings *comfort and quietness* to the housing by *absorbing noise* without *emitting VOCs*. It does *not ignite* and does not release any toxic fume, it *resists mushrooms*, it does not trigger *any allergies*, it is *recyclable*. It provides a life span of 50 years. It is easy to install and is not irritating.
- ✓ Gramitherm® has a *European Technical Approval* and a *CE marking*, the Environmental Product Declarations (EPD) can be viewed in the *INIES database* and very soon in the *TOTEM database*. Gramitherm® is also *labelled as Biosourced product* (88 % bio-based and locally sourced, within a radius of 300 km), which allows you to benefit from an additional 25 % premium in case of renovation. Gramitherm® is also Solar Impulse Efficient Solution labelled and just received the Trends Impact Awards in the Circular Economy category.
- ✓ The Gramitherm® insulating material is used *in construction and renovation (roof, walls, floors)*, in interior and exterior insulation, especially in timber frame and off-site construction.
- ✓ The Gramitherm Europe SA company is active **in Wallonia** : the production line with a production capacity of 200.000 m<sup>3</sup>/year is located in Auvélais. The establishment of the Gramitherm® panel production plant in Auvélais is part of a *local ecosystem* and allows us to be near our raw material suppliers, our partners and clients.
- ✓ In order to offer a complete insulating solution adapted to each site, **Gramitherm® is a partner of AMPACK**, a company specialized in the waterproofing and building physics. The waterproofing and windproofing membranes shall bring thermal and hygrometric optimization to the building system.

**Practical information:**

Product name: Gramitherm®  
Panel size: 120 cm x 60 cm  
Thickness: 45 to 240 mm  
Density: 40 kg/m<sup>3</sup>  
Thermal conductivity: 0.41w/m.K  
Phase-shift time: 8 - 9h (240 mm)  
Thermal resistance: R=4 for 160 mm thickness



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