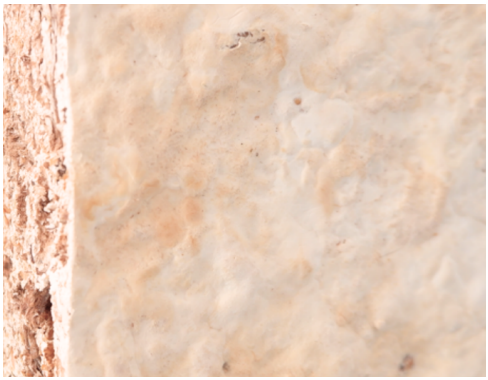
mykor

bring the forest home

www.mykor.co.uk

We decarbonise
the construction industry
by manufacturing
carbon-negative
materials.

MykoFoam



MykoFoam is an acoustic and thermal carbon-negative insulation sheet. It is 100% made of renewable and bio-based materials sourced from industrial waste. Our technology presents improved water-proofing and stabilising properties for increased durability, whilst maintaining the breathable and fire-retardant benefits of mycelium insulation.

At **Mykor**, our insulation manufacturing process sets new standards, consuming 90% less water and 40% less electricity than traditional polystyrene. By employing our product, we effectively redirect 2,000 tons of biomass annually from the path of incineration, contributing to a more environmentally conscious approach.

Application: Interior application only, and can either be concealed or exposed. It is not suitable for exterior applications.

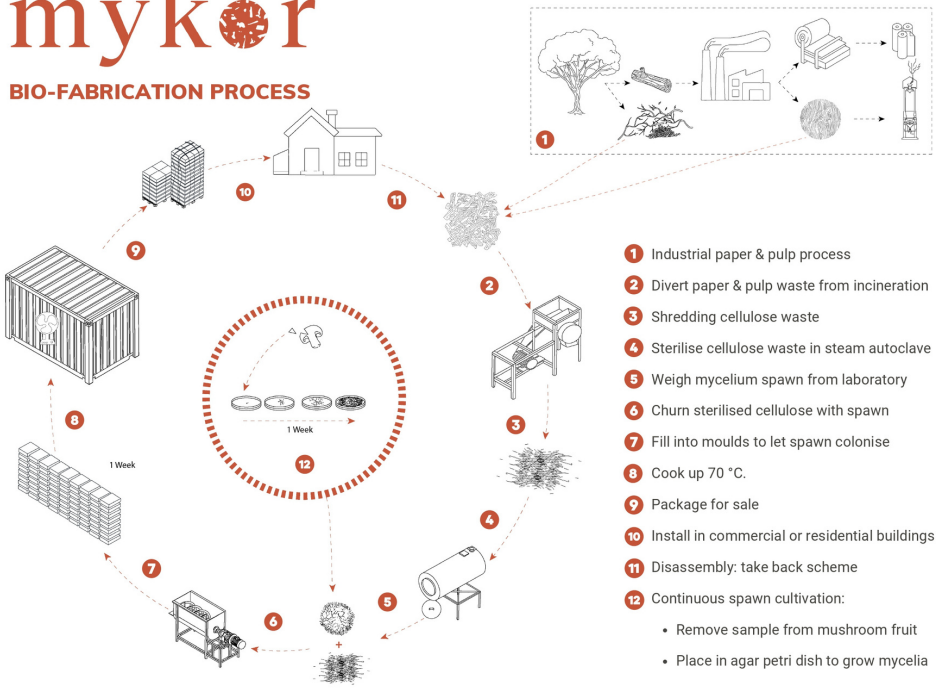
Why switch to Mycelium materials?

- **Thermal and Acoustic**
- **Carbon Negative**
- **100% Circular**
- **Fire Retardant**
- **Affordable**
- **Easy Install**

Undergoing rigorous testing in certified laboratories, our product competes both economically and physically with conventional insulation options like plastic foams and mineral wools. Notably, it achieves this while significantly reducing embodied carbon, thus exemplifying our dedication to delivering eco-friendly solutions.

mykor

BIO-FABRICATION PROCESS



1. Industrial paper & pulp process
2. Divert paper & pulp waste from incineration
3. Shredding cellulose waste
4. Sterilise cellulose waste in steam autoclave
5. Weigh mycelium spawn from laboratory
6. Churn sterilised cellulose with spawn
7. Fill into moulds to let spawn colonise
8. Cook up 70 °C.
9. Package for sale
10. Install in commercial or residential buildings
11. Disassembly: take back scheme
12. Continuous spawn cultivation:
    - Remove sample from mushroom fruit
    - Place in agar petri dish to grow mycelia

Our bio-fabrication process produces exceptionally high-performing building materials using industrial waste. This guarantees that the manufacturing process is not only low in carbon but also fully circular, renewable, and recyclable.

Our technology: We harness Green Chemistry and mycelium networks to offer insulation that excels in thermal efficiency, durability, breathability, as well as moisture and fire resistance.

Mykor Lab in United Kingdom

The company's research and development team is headquartered in the United Kingdom, consisting of specialised material scientists and biotechnology engineers committed to pushing the boundaries of our product's advancement. At Mykor, we consider it paramount to lead with cutting-edge technology, which serves as the cornerstone guiding our intricate R&D project endeavours.

Pilot Factory in Portugal

Our factory, strategically located in Portugal, is nearing completion, bringing us one step closer to commencing manufacturing in October. The chosen site considers not only the availability of industrial residues used in our products but also leverages its solar power capabilities.

mykor

bring the forest home

Contacts:

www.mykor.co.uk

info@mykor.co.uk

mykor.materials

company/mykor