



January 2019

## Made of Air at a glance

### What is Made of Air?

Made of Air (MOA) is a biochar-based material designed to **combat climate change**. Made of 90% atmospheric carbon, the material is a sustainable alternative for use in construction, interiors, furniture and more.

### Made of Air is carbon negative

Production of MOA removes more CO<sub>2</sub> from the air than it emits.

### How does that happen?

Made of Air is made of **biochar**, a carbon-rich substance similar to charcoal that is produced by the **pyrolysis** of waste biomass (plant matter left over from forestry and agriculture). In pyrolysis, biomass is burned in an oxygen-free environment. The carbon captured by the plant matter during photosynthesis is sequestered in the resulting biochar material. Hence, MOA is literally made of carbon captured from the air.

### Energy net positive

Pyrolysis is an exothermic process, releasing energy in the form of heat. This heat can be stored or converted into electrical energy.

### Formable with many uses

As a thermoplastic, MOA can easily be moulded into any shape. We have identified five industries where MOA can be best applied: building facades, furniture, interiors, transport, urban infrastructure.

### Non-toxic

MOA's components are non-toxic: biochar (which is used in agriculture) with small amounts of bio-polymer binding agents which are entirely plant-based.

### Fully recyclable

At the end of its life cycle MOA can be collected, recycled and reformed into new products. Alternatively, it can be safely landfilled.

### Fossil-free

The MOA material contains no fossil fuels such as petroleum.

### Where is Made of Air produced?

All steps of the MOA manufacturing process are carried out by our trusted partners in Germany.

**Who's behind Made of Air?**

Made of Air GmbH—which is based in Berlin—was founded in 2016 by architect Allison Dring and materials specialist Daniel Schwaag. The founders have been working together for more than a decade. Their company Elegant Embellishments produces custom facades that actively neutralise urban pollutants such as Nitrous Oxide and have been used on large buildings around the world.

**How is Made of Air funded?**

Made of Air GmbH was founded with seed investment in 2016 and received a start-up grant from the European Union's Climate-KIC programme in 2017. In November 2018, Made of Air was awarded the €10,000 Govtechprize for Germany.

**What's next?**

After two years of research, development and testing, Made of Air is now in active negotiations on the first construction project using MOA.

**Press contact**

For more information and to organise interviews with the company's founders, please contact:

Maurice Frank

maurice@madeofair.com

0049 178 218 5752