

Mimmik Tile

Sustainability Statement



Product Overview

Mimmik™ Tiles are bioconcrete-based architectural tiles manufactured by Biomason in **Ikast, Denmark**, using Zymecrete™ technology, a biologically formed binder produced without high-temperature kiln firing. The product is designed for architectural applications requiring durable, modular tiles with reduced embodied carbon. Datasheets are available for download.

Environmental Performance (Cradle-to-Gate A1–A3)

- **Life cycle scope:** Cradle-to-gate (A1–A3)
- **Functional unit:** 1 m² of tile at specified product thickness
- **Manufacturing location:** Ikast, Denmark

An independent Life Cycle Assessment in accordance with **EN 15804+A2** is being finalized.

Preliminary internal modelling indicates: **< 5.5 kg CO_{2e} per m² (A1–A3)**

This corresponds to an estimated reduction of approximately **60% in Global Warming Potential** compared to a conventional Portland cement-based concrete tile of comparable thickness and performance. Final values will be confirmed in a third-party verified Environmental Product Declaration (EPD).

Manufacturing Approach

- Binder formation through controlled biological processes
- No high-temperature kiln firing
- Reduced process emissions compared to clinker-based cement production
- Onsite binder production to minimize transport of conventional cement

While cradle-to-gate impacts remain primarily linked to raw material sourcing, electricity consumption, and upstream supply chains, Biomason is actively working to minimize these effects through renewable electricity sourcing, increased production efficiency and ongoing supply chain optimization.

Contribution to Green Building Frameworks

Upon publication of the verified EPD, Mimmik Tiles are expected to contribute to material-related credits within **BREEAM, LEED, DGNB** and **WELL v2**. The 3rd generation product is in the process of inclusion in selected environmental material databases. Note: Building certifications apply to projects, not products. Contribution depends on overall project design and documentation.

Transparency & Next Steps

- Third-party verified EPD (EN 15804+A2) forthcoming
- Full LCA breakdown (A1–A3) to be publicly available
- Full Technical datasheets and performance documentation forthcoming

Contact

For specification documents, technical performance data, or draft EPD review visit our distribution partner:
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