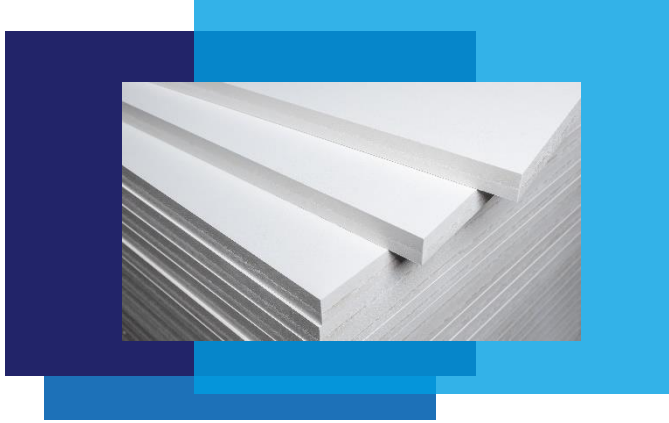


## ENVIRONMENTAL PRODUCT DECLARATION SUMMARY

### MONALITE® M1AT & MONALITE® M1T



#### Product description

Monalite®M1AT and Monalite®MIT are the cement bounded high density calcium silicate fire protective boards used mainly in heavy industries.

#### Declared/Functional Unit

Results below are related to **1m<sup>2</sup>, 38.5mm** thickness of Monalite®M1AT with gross density 850-992 kg/m<sup>3</sup>. According to the results of the variability study, the EPD results are representative for Monalite®M1T as well.

EPD Programme operator	IBU (Institut Bauen und Umwelt e.V)
EPD registration no.	EPD-ETE-20230251-IBA1-EN
Validity period	25/09/2023-24/09/2028
Followed standards for LCA/EPD	ISO 14025 & EN15804+A2:2019

LCI Database/ Calculation date	Ecoinvent 3.8, Industry 2.0
Geographical scope	Europe
Manufacturing location	Tisselt, Belgium
Reference year of production data	Sept 2020-Oct 2021

#### Key Assessment Results

CARBON FOOTPRINT	Total Global Warming Potential (GWP) including fossil, biogenic and luluc GWP
Upfront Carbon - Cradle to gate [A1–A3*]	45.1 kgCO <sub>2</sub> -Eq./m <sup>2</sup>
Embodied Carbon - Cradle to gate, with options including A1-A3, A5** and C*** modules	49.0 kgCO <sub>2</sub> -Eq./m <sup>2</sup>

\* Hydropower, local Combined Heat & Power (CHP) and solar panels are the sources of steam & electricity generations for Tisselt.

\*\* A5 only includes waste treatment of the packaging of the final product. Installation itself has not been included, as a wide variety exists depending on the application.

\*\*\* Recycling as the End-of-Life scenario.

Product - Upfront carbon			Construction		Building maintenance and use - B							Building End of Life - C			
A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4
Raw Material	RM Transport to Factory	Manufacture products	Transport to site	Construction of the building	Use	Maintenance	Repair	Replacement	Refurbishment	Energy use for Building usage	Water Use for Building usage	Demolishing the building	Haul away waste materials	Recycling	Disposal
Embodied carbon											Embodied carbon				