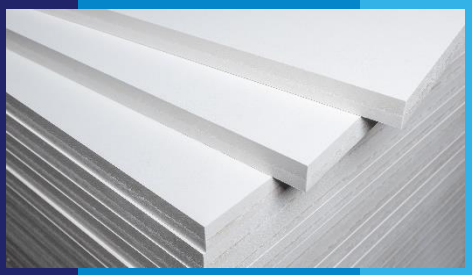
Promat

ENVIRONMENTAL PRODUCT DECLARATION SUMMARY

MONOLUX®



Product description

MONOLUX® is the cement bounded calcium silicate fire protective boards with increased density used for multiple applications in heavy industries. MONOLUX® materials are rigid insulation boards with a low thermal conductivity.

Declared/Functional Unit

Results below are related to **1m², 38.5mm** thickness of MONOLUX® with gross density 950 kg/m^3.

EPD Programme operator	IBU (Institut Bauen und Umwelt e.V)
EPD registration no.	EPD-ETE-20230252-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*]	25.2 kgCO_2–Eq./m²
Embodied Carbon - Cradle to gate, with options including A1-A3, A5** and C*** modules	31.5 kgCO_2–Eq./m²

* 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			

For the full EPD, visit: Veröffentlichte EPDs | Institut Bauen und Umwelt e.V. (ibu-epd.com)

For additional product information, visit: MONALITE® high-density calcium silicate insulation - Promat

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