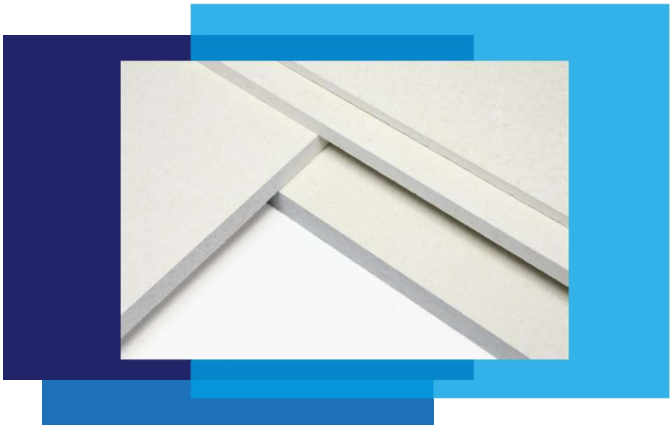
Promat

ENVIRONMENTAL PRODUCT DECLARATION SUMMARY
PROMATECT®-H



Product description

PROMATECT®-H is a fire-protective cement bonded calcium silicate based insulation board and is asbestos free.

Declared/Functional Unit

Results below are related to the production and installation of 1m² PROMATECT®-H with a thickness of **20mm**.

EPD Programme operator	IBU (Institut Bauen und Umwelt e.V)
EPD registration no.	EPD-ETE-20230130-IBA2-EN
Validity period	31/07/2023-30/07/2028
Followed standards for LCA/EPD	ISO 14025 & EN15804+A2:2019

LCI Database/ Calculation date	Ecoinvent 3.8 and Industry 2.0
Geographical scope	Europe
Manufacturing location	Guangzhou, China
Reference year of production data	2021

Key Assessment Results

CARBON FOOTPRINT	Total Global Warming Potential (GWP) including fossil, biogenic and luluc GWP
Upfront carbon - Cradle to gate [A1–A3]	16.5 $kgCO_2$–Eq./m²
Embodied Carbon - Cradle to gate, with options including A, B* and C** modules **Scenario **outdoor**, sheltered from rain* ***Scenario recycling*	22.7 $kgCO_2$–Eq./m²
Embodied Carbon - Cradle to gate, with options including A, B* and C**modules **Scenario **indoor**, without or with 'open' cover* ***Scenario recycling*	23.9 $kgCO_2$–Eq./m²

Note : this product includes cement and slaked lime, that over the lifetime of the product will adsorb CO_2 from the atmosphere, which can be seen as negative GWP values in B1. The amount of absorbed CO_2 highly depends on the exposure conditions during the use phase. Two use scenarios were calculated "outdoor sheltered from rain" and " indoor, without or with 'open' cover".

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: Published EPDs | Institut Bauen und Umwelt e.V. (ibu-epd.com)

For additional product information, visit: Promat PROMATECT® H

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