

ENVIRONMENTAL PRODUCT DECLARATION SUMMARY

PROMATECT®-H RWS/HCM



Product description

PROMATECT®-H RWS/HCM is a calcium silicate board for fire protection in multiple applications.

Declared/Functional Unit

Results below are related to the production and installation of 1m² PROMATECT®-H RWS/HCM with a thickness of **27.5mm**.

EPD Program operator	MRPI
EPD registration no.	1.1.00454.2023
Validity period	15/12/2023-15/12/2028
Followed standards for LCA/EPD	ISO 14025 & EN15804+A2:2019

LCI Database/ Calculation date	Ecoinvent 3.6
Geographical scope	The Netherlands
Manufacturing location	Kapelle-op-den-Bos, Belgium
Reference year of production data	2020

Key Assessment Results

CARBON FOOTPRINT	Total Global Warming Potential (GWP) including fossil, biogenic and luluc GWP
Product - Cradle to gate [A1–A3]	16.3 kgCO ₂ -Eq./m ²
Product + Construction - Cradle to gate, with options	19.1 kgCO ₂ -Eq./m ²
Embodied Carbon - Cradle to gate, with options including A, B1-B5* and C** modules <i>*Scenario outdoor, sheltered from rain</i> <i>**Scenario landfill</i>	18.1 kgCO ₂ -Eq./m ²
Embodied Carbon - Cradle to gate, with options including A, B1-B5* and C** modules <i>*Scenario outdoor, sheltered from rain</i> <i>**Scenario recycling</i>	18.8 kgCO ₂ -Eq./m ²

Note : this product includes cement and slaked lime, that over the lifetime of the product will adsorb CO₂ from the atmosphere, which can be seen as negative GWP values in B1. The amount of absorbed CO₂ highly depends on the exposure conditions during the use phase, here the use scenarios "outdoor sheltered from rain" was calculated.

Product			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 | MRPI](#)

For additional product information, visit: [PROMATECT®-H RWS/HCM](#)