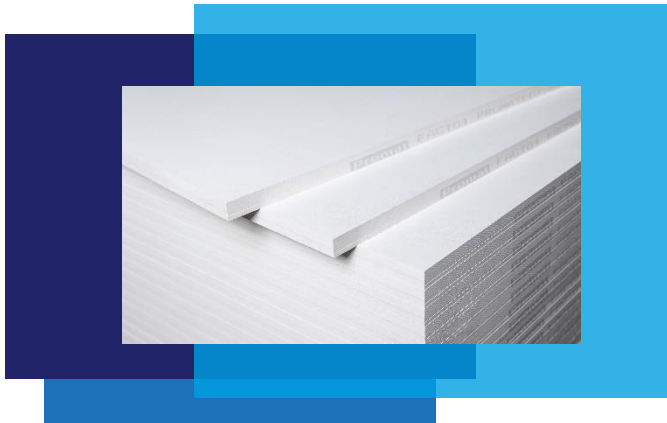


ENVIRONMENTAL PRODUCT DECLARATION SUMMARY

Promatect-MST®, Promatect-MT®, Promarine 450T®, Promarine 640T®, Supalux M1®, Vermiculux T®, Promatect MLT®, Promasil® 1100 Supper, Promasil® 1000L



Product description

The Promat products covered in this EPD are the cement bounded medium density calcium silicate boards used for fire protection in different sectors within building & industrial constructions.

Declared/Functional Unit

Results below are related to **1m², 40mm** thickness of Promat products with gross density 300-750 kg/m³.

The reference product used in this EPD is the Promatect-MST® with a density of 750 kg/m³ and a thickness of 40mm. According to the results of the variability study, the EPD results are representative for the following products: Promatect-MT®, Promarine 450T®, Promarine 640T®, Supalux M1®, Vermiculux-T®, Promatect MLT®, Promasil 1100 Super®, Promasil 1000L®.

EPD Program operator	IBU (Institut Bauen und Umwelt e.V)
EPD registration no.	EPD-ETE-20230253-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*]	28.1 kgCO ₂ -Eq./m ²
Embodied Carbon - Cradle to gate, with options including A1-A3, A5** and C*** modules	32.6 kgCO ₂ -Eq./m ²

* 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				