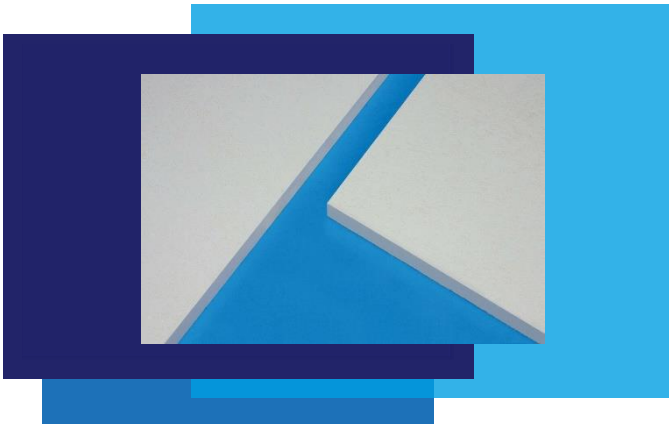
ENVIRONMENTAL PRODUCT DECLARATION SUMMARY
PROMATECT® TF-X



Product description

PROMATECT®TF-X is a fire protective high performance calcium silicate board, composed of a calcium silicate matrix, cement and mineral fillers. The board is off-white in colour. The board is produced using FiBeCop technology, a new and exclusive manufacturing process that allows production of monolithic homogenous boards with thickness up to 40 mm.

Declared/Functional Unit

Results below are related to the production and installation of 1 m^2 of the board with thickness(1) of 30 mm and a reference service life of 60 years. The mass of the declared unit is 29.9 kg.

EPD Program operator	EPD HUB	**LCI Database/ Calculation date**	Ecoinvent 3.10.1
EPD registration no°	HUB-3651	**Geographical scope**	Europe
Validity period	18/07/2025-17/07/2030	**Manufacturing location**	Belgium
Followed standards	EN 15804+A2 ISO 14025	**Reference year**	2023

KEY ASSESSMENT RESULTS

CARBON FOOTPRINT	Total Global Warming Potential (GWP) including fossil, biogenic and luluc GWP
Product - Cradle to gate [A1–A3](2)	18.6 kg CO_2–Eq./m^2
Embodied Carbon - Cradle to Grave, Modules [A1-A3, A4(3), A5, B1-B5 and C1-C4(4)]	22.4 kg CO_2–Eq./m^2

(1) : The environmental impacts of PROMATECT TF-X with other thicknesses can be considered as proportional to the thickness. Accordingly, for any actual board thickness, the environmental impacts for the actual board thickness can be easily obtained by multiplying the results in this EPD by the ratio (actual thickness (mm) / 30 mm).

(2) : The manufacturing site uses natural gas and 100% green electricity as energy sources during manufacturing.

(3) : For the transportation from the production plant to the job-site, a scenario was assumed with a transportation distance of 100 km via lorry. For other transportation distances, the impacts can be calculated by multiplying module A4 impact with the transport distance to the specific location and dividing by 100.

(4) : We have considered in the table that 100% of boards and fixing materials from post-consumer demolition wastes are going to recycling at end of life. In the EPD document, both 100% recycling and 100% landfilling scenarios are declared.

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: Home | EPD Hub

For additional product information, visit: PROMATECT®TF-X