EQUITONE
Fibre cement facade materials

ENVIRONMENTAL PRODUCT DECLARATION: SUMMARY

EQUITONE [natura], [natura] PRO, white cement, coated

Product description

EQUITONE panels are through-coloured large-size fibre cement facade materials.

Declared/Functional Unit

Results below are related to the production and installation of 1m² EQUITONE [natura] using the pure white base panel with a thickness of 8mm (unit mass: 14.8kg) as the reference product. According to the results of the variability study, the EPD results are representative for all the following products produced with white cement in the same plant (Beckum, Germany): EQUITONE [natura] 8 mm, EQUITONE [natura] PRO 8 mm, EQUITONE [textura] 8 mm, EQUITONE [pictura] 8 mm.

The environmental impact of the 12mm product can be obtained by multiplying the EPD results with the correction factor 1.5.

EPD Programme operator	EPD HUB
EPD registration no.	HUB-2112
Validity period	18 Oct 2024 -18 Oct 2029
Followed standards for LCA/ EPD	ISO 14025 & EN15804+A2:2019

Main environmental data source	Ecoinvent 3.8
Geographical scope	Europe
Manufacturing location	Beckum, Germany
Reference year of production data	Calendar year 2022

Key Assessment Results

CARBON FOOTPRINT	TOTAL GLOBAL WARMING POTENTIAL (GWP) (including fossil, biogenic and luluc GWP)
Product - Cradle to gate [A1-A3]	23.2 $kgCO_2$-Eq./m²
Product & Construction - Cradle to gate with options [A1-A5]	26.7 $kgCO_2$-Eq./m²
Embodied Carbon - Cradle to gate with options including A, B1-B5 and C* modules *(*Scenario landfill- Scenario recycling is at 23.2 $kgCO_2$-Eq./m²)*	23.1 $kgCO_2$-Eq./m²

Note: *Beckum site uses natural gas, steam and 100% green electricity as the energy sources during the manufacturing.*
Note: this product includes cement, 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, exposed to 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			

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