

ENVIRONMENTAL PRODUCT DECLARATION SUMMARY

CEDRAL slates



Product description

CEDRAL slates are naturally hardened fibre cement slates comprising cellulose and polymer fibers for water retention, improved tensile load distribution and increased breaking load and distortion.

Declared/Functional Unit

Results below are related to 1 m² of CEDRAL slates with a thickness of 4mm, a reference service life of 60 years and its related impacts over the cradle to grave life-cycle module. The EPD results are representative for all slates produced in the Beckum plant in Germany.

The environmental impact of the 5mm product can be obtained by multiplying the EPD results with the correction factor 1.25.

EPD Programme operator	EPD HUB
EPD registration no.	HUB-2282
Validity period	29/11/2024–29/11/2029
Followed standards for LCA/EPD	ISO 14025 & EN15804+A2:2019

LCI Database/ Calculation date	Ecoinvent 3.8
Geographical scope	Europe
Manufacturing location	Beckum, Germany
Reference year of production date	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]	5.0 kgCO ₂ –Eq./m ²
Product & Construction – Cradle to gate, with options [A1–A5]	5.5 kgCO ₂ –Eq./m ²
Embodied Carbon – Cradle to gate, with options including A, B1-B5 and C* modules (*B1- Use/Exposure scenario : outdoor exposed to rain // C - End of life Scenario : landfill)	3.8 kgCO ₂ –Eq./m ²

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 absorb 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				

For the full EPD, visit: [Home | EPD Hub](#)

For additional product information, visit: [CEDRAL](#)