

## 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 m<sup>2</sup> 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 Athy plant in Ireland.

EPD Programme operator	EPD HUB
EPD registration no.	HUB-2804
Validity period	24/01/2025–23/01/2030
Followed standards for LCA/EPD	ISO 14025 & EN15804+A2:2019

LCI Database/ Calculation date	Ecoinvent 3.8
Geographical scope	Europe
Manufacturing location	Athy, Ireland
Reference year of production date	Calendar year 2023

### Key Assessment Results

CARBON FOOTPRINT	TOTAL GLOBAL WARMING POTENTIAL (GWP) (including fossil, biogenic and luluc GWP)
<b>Product</b> – Cradle to gate [A1–A3]	<b>5.5 kgCO<sub>2</sub>-Eq./m<sup>2</sup></b>
<b>Product &amp; Construction</b> – Cradle to gate, with options [A1–A5]	<b>6.4 kgCO<sub>2</sub>-Eq./m<sup>2</sup></b>
<b>Embodied Carbon</b> – 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)	<b>4.8 kgCO<sub>2</sub>-Eq./m<sup>2</sup></b>

Note: Athy site uses natural gas 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 CO<sub>2</sub> from the atmosphere, which can be seen as negative GWP values in B1. The amount of absorbed CO<sub>2</sub> 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	RMTransport 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](#)

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