



ENVIRONMENTAL PRODUCT DECLARATION

IN ACCORDANCE WITH EN 15804+A2 & ISO 14025

Stoneware extruded tiles - Facade FK SKIN
Cerámica Mayor S.A.



EPD HUB, HUB-7139

Published on 07.08.2026, last updated on 07.08.2026, valid until 06.08.2031

Life Cycle Assessment study has been performed in accordance with the requirements of EN 15804, EPD Hub PCR version 1.2 (24 Mar 2025) and JRC characterization factors EF 3.1.

GENERAL INFORMATION

MANUFACTURER

Manufacturer	Cerámica Mayor S.A.
Address	Partida Planet s/n, Callosa d'en Sarrià (03510) Alicante, España
Contact details	info@ceramicamayor.com
Website	www.tempio.es , www.ceramicamayor.com

EPD STANDARDS, SCOPE AND VERIFICATION

Program operator	EPD Hub, hub@epdhub.com
Reference standard	EN 15804:2012+A2:2019/AC:2021 and ISO 14025
PCR	EPD Hub Core PCR Version 1.2, 24 Mar 2025 EN 17160 Product category rules for ceramic tiles
Sector	Construction product
Category of EPD	Third party verified EPD
Scope of the EPD	Cradle to gate with modules C1-C4, D
EPD author	Martin Oddershede
EPD verification	Independent verification of this EPD and data, according to ISO 14025: ☐ Internal verification ☒ External verification
EPD verifier	Afzal khan Peerukhan as an authorized verifier for EPD Hub

This EPD is intended for business-to-business and/or business-to-consumer communication. The manufacturer has the sole ownership, liability, and responsibility for the EPD. EPDs within the same product category but from different programs may not be comparable. EPDs of construction products may not be comparable if they do not comply with EN 15804 and if they are not compared in a building context.

PRODUCT

Product name	Stoneware extruded tiles - Facade FK SKIN
Additional labels	Tempio
Place(s) of raw material origin	Spain
Place of production	Callosa d'en Sarrià, Spain
Place(s) of installation and use	Global
Period for data	Calender year 2025
Averaging in EPD	No grouping
A1-A3 Specific data (%)	96

ENVIRONMENTAL DATA SUMMARY

Declared unit	1 m ²
Declared unit mass	28,5 kg
Mass of packaging	1,58 kg
GWP-fossil, A1-A3 (kgCO ₂ e)	7,25
GWP-total, A1-A3 (kgCO ₂ e)	7,31
Secondary material, inputs (%)	48,40
Total energy use, A1-A3 (kWh)	44,30
Net freshwater use, A1-A3 (m ³)	0,04

PRODUCT AND MANUFACTURER

ABOUT THE MANUFACTURER

Cerámica Mayor S.A. is a leading company in the manufacture of extruded coverings with a long tradition in the production of flooring and wall tiles, both in natural and glazed finishes. The company was founded in the last century by Mr. Fernando Mayor Boluda and today it is managed by the Mayor brothers. Since its beginnings, it has preserved its values, beliefs, and customs, passing them down through generations and reflecting them in every form of expression.

We are a family business with the know-how of three generations. From the first generation, from which we inherited the knowledge of clays and fire, through the enterprising generation that changed the concept of a manual company to a factory with cutting-edge technology and machinery, to the latest and most recent generation, which tries to make use of new technologies to enhance our product.

We are currently a team of 100 people who work with professionalism and perseverance to achieve a common goal: excellence in our products. Our technical department, experts in architecture, engineering, construction and design, is involved in each project, from its conception to its completion, creating synergies with each client throughout the entire process with the aim of achieving excellence in the product.

PRODUCT DESCRIPTION

The Tempio product range consists of extruded, glazed and unglazed stoneware tiles for ventilated façade cladding.

The range includes ceramic tiles belonging to groups Alb and Alla, classified in accordance with EN 14411:2016 (equivalent to ISO 13006:2018). The water absorption is between 0.5% and 3% for group Alb and between 3% and 6% for group Alla.

The tiles are available in various models and sizes, with surface weights ranging from 19 kg/m² to 58 kg/m². The specific product assessed and declared in this EPD has a surface weight of 28.5 kg/m².

The function of the product is to cover surfaces. In this study the environmental behavior of the stoneware extruded tiles coverings as ventilated external wall cladding. However, the versatility of these pieces allows them to be installed in other places, such as offices, shops, hospitals, etc., indoor and outdoor environments, as well as other surfaces.

The Reference Service Life (RSL) of the product is the same as that of the building where it is installed. A Reference Service Life of 50 years has been considered, although the products manufactured and marketed by Cerámica Mayor and Tempio have a longer durability.

Further information can be found on:

www.tempio.es, www.ceramicamayor.com

PRODUCT RAW MATERIAL MAIN COMPOSITION

Raw material category	Amount, mass %	Material origin
Minerals	100	Spain

BIOGENIC CARBON CONTENT

Product's biogenic carbon content at the factory gate

Biogenic carbon content in product, kg C	0,00
Biogenic carbon content in packaging, kg C	0,18

FUNCTIONAL UNIT AND SERVICE LIFE

Declared unit	1 m ²
Mass per declared unit	28,50 kg
Reference service life	50 years

SUBSTANCES, REACH - VERY HIGH CONCERN

The product does not contain any REACH SVHC substances in amounts greater than 0,1 % (1000 ppm).

PRODUCT LIFE-CYCLE

SYSTEM BOUNDARY

This EPD covers the life-cycle modules listed in the following table.

Product stage			Assembly stage		Use stage								End of life stage				Beyond the system boundaries		
A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7		C1	C2	C3	C4	D		
x	x	x	ND	ND	ND	ND	ND	ND	ND	ND	ND		x	x	x	x	x		
Raw materials	Transport	Manufacturing	Transport	Assembly	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use		Deconstruction/ demolition	Transport	Waste processing	Disposal	Reuse	Recovery	Recycling

Not declared = ND.

MANUFACTURING AND PACKAGING (A1-A3)

The environmental impacts considered for the product stage include the production and transport of raw materials, packaging and ancillary materials, manufacturing energy, production residues, process water and direct manufacturing emissions. Electricity transmission losses are included in the applied electricity datasets.

A market-based approach is used to model factory electricity using the Spanish electricity mix. Natural gas is used for drying and kiln firing. Solar electricity is also generated on-site; however, it is assigned an allocation of 0% and is therefore not included in the calculated environmental impacts of this EPD.

A1 – Extraction and processing of raw materials

The ceramic body consists primarily of clay and internally recovered ceramic materials, supplemented by glaze, digital ink and body colour. Internally recovered unfired and fired ceramic materials replace virgin raw materials in the subsequent production cycle.

A2 – Transport to the production site

Raw materials supplied from external sources are transported to the manufacturing facility by truck. The applied transport distances range from 215 km to 374 km, depending on the material and supplier.

The transport distance of 374 km applied to the internally recovered ceramic materials represents the original transport of the materials to the manufacturing facility. The recovered materials are reintroduced directly into subsequent production.

Packaging materials are transported to the manufacturing facility by truck over distances ranging from 36 km to 214 km.

A3 – Manufacturing processes

Manufacturing takes place at a single production facility and includes raw-material preparation and milling, extrusion, drying, glazing, firing, cooling, quality control and packaging.

Production residues from rejected unfired and fired ceramic products are continuously recovered and returned to the manufacturing process, replacing virgin raw materials. Consequently, no separate production loss is applied in the model.

Packaging consists of wooden pallets, cardboard, plastic film and plastic straps. Wooden pallets are reused by the supplier, while cardboard, strips and plastic film are managed by authorized waste operators after use. Process water and diesel used by machinery are included as ancillary inputs.

No solid manufacturing waste requiring external treatment is modelled in A3, as recoverable ceramic residues are returned internally to production. Process water is assumed to evaporate during manufacturing; therefore, no wastewater treatment or transport of A3 manufacturing waste is modelled. Relevant direct emissions from the manufacturing process are included separately.

PRODUCT END OF LIFE (C1-C4, D)

C1 – Deconstruction and demolition

At the end of its service life, the product is removed during building renovation or demolition. Energy required for removal is modelled using diesel consumption for construction machinery.

C2 – Transport

At the end of life, the product waste is transported by EURO 6-compliant heavy-duty trucks. The 70% share intended for recycling or reuse is

transported 39 km from the building site to the waste-processing facility. The remaining 30% intended for disposal is transported 39 km to the waste-processing facility and an additional 23 km to the final landfill.

C3 – Waste processing for reuse, recovery and recycling

In accordance with the TBE PCR scenario, 70% of the tiles are assumed to be processed for recycling or reuse. This corresponds to 19.95 kg per declared unit, which is recovered for use as secondary mineral material.

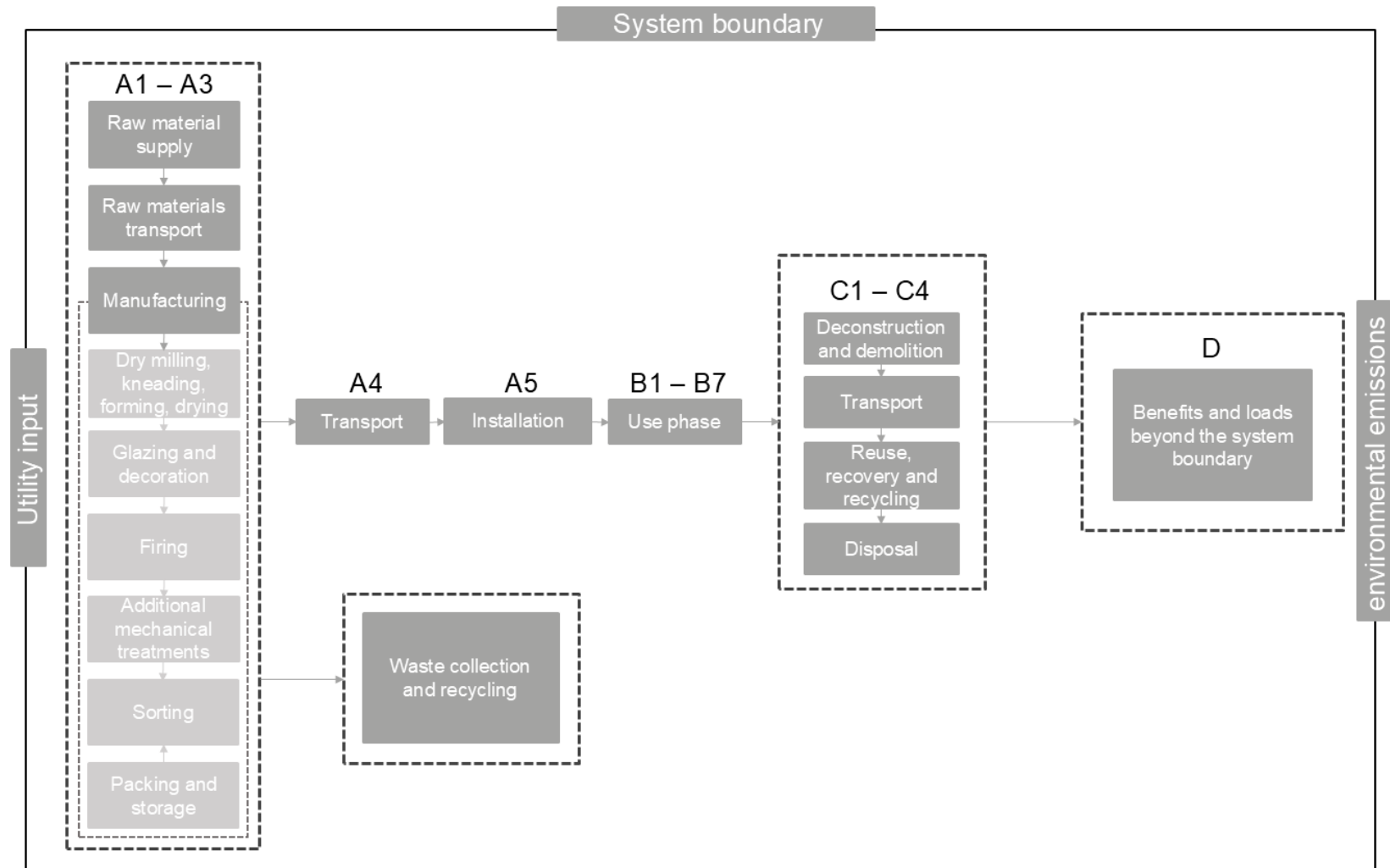
C4 – Final disposal

The remaining 30% of the product is disposed of in a controlled inert landfill. This corresponds to 8.55 kg per declared unit.

Module D – Benefits and loads beyond the system boundary

Module D reports the potential environmental benefits and burdens associated with secondary materials recovered from packaging waste generated during installation and from mineral product waste recovered at the end of life. The model includes the relevant benefits from cardboard and plastic packaging and from recovered mineral material.

SYSTEM DIAGRAM



LIFE-CYCLE ASSESSMENT

CUT-OFF CRITERIA

The study does not exclude any modules or processes which are stated mandatory in the reference standard and the applied PCR. The study does not exclude any hazardous materials or substances. The study includes all major raw material and energy consumption. All inputs and outputs of the unit processes, for which data is available for, are included in the calculation. There is no neglected unit process more than 1% of total mass or energy flows. The module specific total neglected input and output flows also do not exceed 5% of energy usage or mass.

The production of capital equipment, construction activities, and infrastructure, maintenance and operation of capital equipment, personnel-related activities, energy and water use related to company management and sales activities are excluded.

VALIDATION OF DATA

Data collection for production, transport, and packaging was conducted using time and site-specific information, as defined in the general information section on page 1 and 2. Upstream process calculations rely on generic data as defined in the Bibliography section. Manufacturer-provided specific and generic data were used for the product's manufacturing stage. The analysis was performed with the 'Cut-Off, EN 15804+A2' allocation method, and characterization factors according to EN 15804:2012+A2:2019/AC:2021 and JRC EF 3.1.

ALLOCATION, ESTIMATES AND ASSUMPTIONS

Allocation is required if some material, energy, and waste data cannot be measured separately for the product under investigation. All allocations are done as per the reference standards and the applied PCR. In this study, allocation has been done in the following ways:

Data type	Allocation
Raw materials	Allocated by mass or volume
Packaging material	Allocated by mass or volume
Ancillary materials	Allocated by mass or volume
Manufacturing energy and waste	Allocated by mass or volume

PRODUCT & MANUFACTURING SITES GROUPING

Type of grouping	No grouping
Grouping method	Not applicable

This EPD is product and factory specific.

LCA SOFTWARE AND BIBLIOGRAPHY

The LCA and EPD have been prepared according to the reference standards and ISO 14040/14044. The EPD Generator uses Ecoinvent v3.10.1/3.11/3.12 and LCA databases as sources of environmental data. Allocation used in Ecoinvent 3.10.1/3.11/3.12 environmental data sources follow the methodology 'allocation, Cut-off, EN 15804+A2'.

ENVIRONMENTAL IMPACT DATA

The estimated impact results are only relative statements which do not indicate the end points of the impact categories, exceeding threshold values, safety margins or risks.

CORE ENVIRONMENTAL IMPACT INDICATORS – EN 15804+A2, EF 3.1

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
GWP – total ¹⁾	kg CO ₂ e	2,14E+00	1,18E+00	4,00E+00	7,31E+00	ND	ND	ND	ND	ND	ND	ND	ND	ND	1,03E-01	1,52E-01	2,92E-01	1,58E-01	-4,69E-02
GWP – fossil	kg CO ₂ e	2,13E+00	1,18E+00	3,94E+00	7,25E+00	ND	ND	ND	ND	ND	ND	ND	ND	ND	1,03E-01	1,52E-01	2,91E-01	1,57E-01	-4,68E-02
GWP – biogenic	kg CO ₂ e	1,06E-02	2,70E-04	2,35E-05	1,09E-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	1,97E-05	3,34E-05	1,28E-03	2,09E-04	-6,30E-05
GWP – LULUC	kg CO ₂ e	1,39E-03	5,24E-04	5,19E-02	5,38E-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	1,06E-05	6,71E-05	1,37E-04	4,03E-04	-4,20E-05
Ozone depletion pot.	kg CFC-11e	1,95E-08	1,71E-08	3,68E-09	4,03E-08	ND	ND	ND	ND	ND	ND	ND	ND	ND	1,53E-09	2,26E-09	6,39E-09	3,09E-09	-4,49E-10
Acidification potential	mol H ⁺ e	1,64E-02	4,09E-03	1,12E-02	3,17E-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	9,23E-04	5,27E-04	2,20E-03	8,54E-04	-2,80E-04
EP-freshwater ²⁾	kg Pe	5,25E-04	1,27E-04	1,19E-03	1,84E-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	3,32E-06	1,62E-05	1,69E-04	1,69E-05	-1,43E-05
EP-marine	kg Ne	1,99E-03	1,35E-03	3,88E-03	7,23E-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	4,30E-04	1,74E-04	7,62E-04	3,57E-04	-6,57E-05
EP-terrestrial	mol Ne	2,31E-02	1,46E-02	4,22E-02	7,99E-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	4,70E-03	1,89E-03	8,21E-03	3,50E-03	-7,92E-04
POCP (“smog”) ³⁾	kg NMVOC	7,48E-03	6,00E-03	1,16E-02	2,50E-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	1,41E-03	7,75E-04	2,70E-03	1,24E-03	-2,26E-04
ADP-minerals & metals ⁴⁾	kg Sbe	1,40E-04	3,36E-06	1,36E-01	1,36E-01	ND	ND	ND	ND	ND	ND	ND	ND	ND	3,71E-08	4,35E-07	8,32E-07	4,21E-07	-2,46E-07
ADP-fossil resources	MJ	4,43E+01	1,68E+01	3,90E+01	1,00E+02	ND	ND	ND	ND	ND	ND	ND	ND	ND	1,34E+00	2,17E+00	4,84E+00	2,78E+00	-6,06E-01
Water use ⁵⁾	m ³ e depr.	1,46E+00	9,80E-02	2,11E+02	2,12E+02	ND	ND	ND	ND	ND	ND	ND	ND	ND	3,46E-03	1,27E-02	1,20E-01	6,70E-02	-6,69E-02

1) GWP = Global Warming Potential; 2) EP = Eutrophication potential. Required characterisation method and data are in kg P-eq. Multiply by 3,07 to get PO4e; 3) POCP = Photochemical ozone formation; 4) ADP = Abiotic depletion potential; 5) EN 15804+A2 disclaimer for Abiotic depletion and Water use and optional indicators except Particulate matter and Ionizing radiation, human health. The results of these environmental impact indicators shall be used with care as the uncertainties on these results are high or as there is limited experience with the indicator.

ADDITIONAL (OPTIONAL) ENVIRONMENTAL IMPACT INDICATORS – EN 15804+A2, EF 3.1

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Particulate matter	Incidence	2,36E-08	1,15E-07	6,30E-08	2,02E-07	ND	ND	ND	ND	ND	ND	ND	ND	ND	2,64E-08	1,49E-08	1,92E-07	1,87E-08	-4,15E-09
Ionizing radiation ⁶⁾	kBq	3,22E-03	1,41E-02	3,81E+00	3,83E+00	ND	ND	ND	ND	ND	ND	ND	ND	ND	5,72E-04	1,85E-03	2,06E-02	2,05E-03	-4,19E-03
Ecotoxicity (freshwater)	CTUe	5,67E+00	3,48E+00	3,46E+00	1,26E+01	ND	ND	ND	ND	ND	ND	ND	ND	ND	7,68E-01	5,10E-01	1,01E+02	2,82E+00	-1,45E-01
Human toxicity, cancer	CTUh	1,08E-10	1,85E-10	6,62E-10	9,55E-10	ND	ND	ND	ND	ND	ND	ND	ND	ND	1,05E-11	2,39E-11	8,05E-11	3,49E-11	-1,21E-11
Human tox. non-cancer	CTUh	3,90E-09	1,04E-08	3,60E-09	1,79E-08	ND	ND	ND	ND	ND	ND	ND	ND	ND	1,65E-10	1,35E-09	3,90E-09	1,25E-09	-3,59E-10
SQP ⁷⁾	-	1,68E+00	1,67E+01	2,29E+02	2,48E+02	ND	ND	ND	ND	ND	ND	ND	ND	ND	8,89E-02	2,16E+00	6,03E+00	3,78E+00	-5,05E-01

6) EN 15804+A2 disclaimer for Ionizing radiation, human health. This impact category deals mainly with the eventual impact of low-dose ionizing radiation on human health of the nuclear fuel cycle. It does not consider effects due to possible nuclear accidents, occupational exposure nor due to radioactive waste disposal in underground facilities. Potential ionizing radiation from the soil, from radon and from some construction materials is also not measured by this indicator; 7) SQP = Land use related impacts/soil quality.

USE OF NATURAL RESOURCES

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Renew. PER as energy ⁸⁾	MJ	5,79E+00	2,33E-01	5,38E+01	5,98E+01	ND	ND	ND	ND	ND	ND	ND	ND	ND	8,44E-03	3,03E-02	-3,60E+00	-1,60E+00	-5,28E-02
Renew. PER as material	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	ND	ND	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,90E-04
Total use of renew. PER	MJ	5,79E+00	2,33E-01	5,38E+01	5,98E+01	ND	ND	ND	ND	ND	ND	ND	ND	ND	8,44E-03	3,03E-02	-3,60E+00	-1,60E+00	-5,25E-02
Non-re. PER as energy	MJ	4,44E+01	1,68E+01	3,84E+01	9,96E+01	ND	ND	ND	ND	ND	ND	ND	ND	ND	1,34E+00	2,17E+00	4,55E+00	2,70E+00	-6,06E-01
Non-re. PER as material	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	ND	ND	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	3,60E-02
Total use of non-re. PER	MJ	4,44E+01	1,68E+01	3,84E+01	9,96E+01	ND	ND	ND	ND	ND	ND	ND	ND	ND	1,34E+00	2,17E+00	4,55E+00	2,70E+00	-5,70E-01
Secondary materials	kg	1,38E+01	7,02E-03	6,00E-02	1,39E+01	ND	ND	ND	ND	ND	ND	ND	ND	ND	5,56E-04	9,09E-04	1,88E-03	9,69E-04	2,94E-04
Renew. secondary fuels	MJ	2,94E-05	9,16E-05	3,04E-01	3,04E-01	ND	ND	ND	ND	ND	ND	ND	ND	ND	1,46E-06	1,19E-05	2,10E-05	1,52E-05	-3,81E-06
Non-ren. secondary fuels	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	ND	ND	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Use of net fresh water	m ³	3,05E-02	2,41E-03	7,05E-03	4,00E-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	8,61E-05	3,10E-04	-2,13E-02	1,21E-03	-1,59E-03

8) PER = Primary energy resources.

END OF LIFE – WASTE

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Hazardous waste	kg	1,89E-02	1,07E-01	1,94E-01	3,20E-01	ND	ND	ND	ND	ND	ND	ND	ND	ND	1,51E-03	1,34E-02	9,22E-03	4,85E-03	-4,23E-03
Non-hazardous waste	kg	4,36E-01	2,12E+00	3,21E-01	2,88E+00	ND	ND	ND	ND	ND	ND	ND	ND	ND	2,20E-02	2,65E-01	2,63E+01	3,59E-01	-9,43E-02
Radioactive waste	kg	1,68E-03	3,36E-06	2,96E-04	1,98E-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	1,41E-07	4,42E-07	5,24E-06	5,01E-07	-1,02E-06

END OF LIFE – OUTPUT FLOWS

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Components for re-use	kg	6,09E-02	0,00E+00	0,00E+00	6,09E-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Materials for recycling	kg	2,86E-04	0,00E+00	4,56E+00	4,56E+00	ND	ND	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	2,00E+01	0,00E+00	0,00E+00
Materials for energy rec	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	ND	ND	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Exported energy	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	ND	ND	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	9,20E-01	0,00E+00	0,00E+00
Exported energy – Electricity	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	ND	ND	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	3,90E-01	0,00E+00	0,00E+00
Exported energy –	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	ND	ND	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	5,30E-01	0,00E+00	0,00E+00

ADDITIONAL INDICATOR – GWP-GHG

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
GWP-GHG ⁹⁾	kg CO ₂ e	2,13E+00	1,18E+00	4,00E+00	7,30E+00	ND	ND	ND	ND	ND	ND	ND	ND	ND	1,03E-01	1,52E-01	2,91E-01	1,58E-01	-4,68E-02

9) This indicator includes all greenhouse gases excluding biogenic carbon dioxide uptake and emissions and biogenic carbon stored in the product. In addition, the characterisation factors for the flows – CH₄ fossil, CH₄ biogenic and Dinitrogen monoxide – were updated. This indicator is identical to the GWP-total of EN 15804:2012+A2:2019 except that the characterisation factor for biogenic CO₂ is set to zero.

SCENARIO DOCUMENTATION

DATA SOURCES

Manufacturing energy scenario documentation

1. Natural gas mix (2020), Spain, ProBas, 0,0094 kgCO₂e/MJ
2. Electricity Spain, Spain, Ecoinvent, 0,0725 kgCO₂e/MJ
3. Concentrated solar power plant electricity (2020, without backup), Spain, ProBas, 115033,78 kgCO₂e/MJ

End of life (C1-C4) - Scenario documentation

Scenario information	Value
Collection process: collected separately (kg)	28,54 kg is assumed to be collected separately at end of life. This comprises 28,50 kg of ceramic façade tiles, 0,03 kg of paper/cardboard packaging and 0,01 kg of plastic packaging. The ceramic tiles are transported 39 km to a waste processor and a further 23 km to the final destination. Of the ceramic product mass, 70% is sent for sorting and preparation for recycling or reuse, while 30% is sent to inert landfill. The packaging fractions are treated according to the modelled recycling, energy recovery and disposal scenarios.
Collection process: Mixed waste (kg)	0 kg. No collection as mixed construction waste is assumed.
Recovery: re-use (kg)	0
Recovery: recycling (kg)	20
Recovery: energy recovery (kg)	0
Disposal (kg)	8,55
Scenario assumptions e.g. transportation (mode, km) & other	39 km to waste processing and an additional 23 km to final treatment/disposal.

THIRD-PARTY VERIFICATION STATEMENT

EPD Hub declares that this EPD is verified in accordance with ISO 14025 by an independent, third-party verifier. The project report on the Life Cycle Assessment and the report(s) on features of environmental relevance are filed at EPD Hub. EPD Hub PCR and ECO Platform verification checklist are used.

EPD Hub is not able to identify any unjustified deviations from the PCR and EN 15804+A2 in the Environmental Product Declaration and its project report.

EPD Hub maintains its independence as a third-party body; it was not involved in the execution of the LCA or in the development of the declaration and has no conflicts of interest regarding this verification.

The company-specific data and upstream and downstream data have been examined as regards plausibility and consistency. The publisher is responsible for ensuring the factual integrity and legal compliance of this declaration.

The software used in creation of this LCA and EPD is verified by EPD Hub to conform to the procedural and methodological requirements outlined in ISO 14025:2010, ISO 14040/14044, EN 15804+A2, and EPD Hub Core Product Category Rules and General Program Instructions.

Verified tools

Tool verifier: Magaly Gonzalez Vazquez

Tool verification validity: 27 March 2025 - 26 March 2028

Afzal khan Peerukhan as an authorized verifier for EPD Hub Limited 07.08.2026

