ENVIRONMENTAL PRODUCT DECLARATION

IN ACCORDANCE WITH EN 15804+A2 & ISO 14025

Pladur® OMNIA plasterboards

Pladur Gypsum, S.A.U.

EPD HUB, HUB-4316
Published on 07.11.2025, last updated on 07.11.2025, valid until 07.11.2030

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.

Created with One Click LCA

GENERAL INFORMATION

MANUFACTURER

Manufacturer	Pladur Gypsum, S.A.U.
Address	Ctra. De Andalucía km 30, 200, 28343 Valdemoro, Spain.
Contact details	david.saenz@pladur.com
Website	https://corporativo.pladur.com/es-es/

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 17328 Complementary Product Category Rules for Gypsum-based Construction Products
Sector	Construction product
Category of EPD	Third party verified EPD
Parent EPD number	-
Scope of the EPD	Cradle to gate with modules C1-C4, D
EPD author	Julien Soulhat, Technical Manager Sustainability, Etex Building Performance International Sas.
EPD verification	Independent verification of this EPD and data, according to ISO 14025: ☐ Internal verification ☑ External verification
EPD verifier	Magaly Gonzalez Vazquez 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	Pladur® OMNIA plasterboards
Additional labels	Placa Pladur® OMNIA 13 Placa Pladur® OMNIA 15
Product reference	-
Place(s) of raw material origin	Spain and EU.
Place of production	Valdemoro and Gelsa, Spain.
Place(s) of installation and use	SPain and Portugal.
Period for data	From January 1st 2023 to Decembre 31st 2023
Averaging in EPD	Multiple factories
Variation in GWP-fossil for A1-A3 (%)	<5,5%
GTIN (Global Trade Item Number)	-
NOBB (Norwegian Building Product Database)	-
A1-A3 Specific data (%)	100

ENVIRONMENTAL DATA SUMMARY

Declared unit	1 m² of board (installed), with 12,5 mm thickness and 12,6 kg/m²
Declared unit mass	12,6 kg
GWP-fossil, A1-A3 ($kgCO_2e$)	2,63
GWP-total, A1-A3 ($kgCO_2e$)	1,97
Secondary material, inputs (%)	3,36
Secondary material, outputs (%)	20,6
Total energy use, A1-A3 (kWh)	12,3
Net freshwater use, A1-A3 (m^3)	0,02

PRODUCT AND MANUFACTURER

ABOUT THE MANUFACTURER

Pladur Gypsum, S.A.U. is part of the global Etex group, which operates in Europe, Africa, the Middle East, South America, and Asia Pacific. Pladur Gypsum, S.A.U. is one of the main suppliers of products for drywall systems, offering valuable solutions for partitions, ceilings, wall linings, and external sheathing. Pladur® products are used in both new constructions and renovation projects, providing systems with performance characteristics suitable for all construction sectors, including residential, commercial, hospitality, and healthcare.

PRODUCT DESCRIPTION

Pladur® OMNIA is a range of plasterboards made of a natural gypsum core entrapped between two paper liners. Pladur® OMNIA is designed for multi-purpose applications

Pladur® OMNIA 13 and OMNIA 15 are plasterboards complying with EN 520:2009+A1 Type I, D, F, R, H1 (high surface hardness, impact resistance, load-bearing capacity, fire resistance, and acoustic insulation, even in humid environments). They are blue in colored with 13 mm thickness, 1200 mm width with tapered edges (BA).

Pladur® OMNIA plasterboards are used in Pladur® interior systems where multiple performance requirements are needed, such as wall linings, partitions, and ceilings requiring: high load-bearing capacity, enhanced acoustic insulation, suitability for medium-humidity areas, resistance to impacts and high foot traffic, and improved fire performance.

This EPD covers placa Pladur® OMNIA 13, with 13 mm thickness. A scaling table is provided in Annex for placa Pladur® OMNIA 15 with 15 mm thickness.

The product is manufactured in 2 plants. The result is averaged based on the production volumes

Further information can be found at: https://corporativo.pladur.com/es-es/

PRODUCT RAW MATERIAL MAIN COMPOSITION

Raw material category	Amount, mass %	Material origin
Metals	0	n/a
Minerals	96,7	Spain and EU
Fossil materials	0,2	EU
Bio-based materials	3,1	EU

BIOGENIC CARBON CONTENT

Product's biogenic carbon content at the factory gate

Biogenic carbon content in product, kg C	0,172
Biogenic carbon content in packaging, kg C	0,020

FUNCTIONAL UNIT AND SERVICE LIFE

Declared unit	1 m² of board (installed), with 12,5 mm thickness and 12,6 kg/m²
Mass per declared unit	12,6 kg
Functional unit	1m² of board installed on a frame, fixed on a support (by mean of mechanical fixings) with joint treatment over a period of 50 years.
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	x	x	x	x	x	x	x	x	x	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

Modules not declared = MND. Modules not relevant = MNR

MANUFACTURING AND PACKAGING (A1-A3)

The environmental impacts considered for the product stage cover the manufacturing of raw materials used in the production as well as packaging materials and other ancillary materials. Also, fuels used by machines, and handling of waste formed in the production processes at the manufacturing facilities are included in this stage. The study also considers the material losses occurring during the manufacturing processes as well as losses during electricity transmission.

A market-based approach is used in modelling the electricity mix utilized in the factory, including the electricity produced from biogas and from photovoltaic sources.

Transport for raw materials considers the distance from the extraction or manufacturing location of the raw material to the production plant and the modelling of the relevant transportation type (e.g. road lorry, train, sea fret, ...) for each raw material.

Transport assumption has also been made to consider the impact of the transport of diesel and/or propane which are delivered by road lorries to the plant. Regarding the energy used: 1) propane is sourced locally from domestic production, 2) diesel is also sourced locally from domestic production using a mix of local oil fields and imported crude oil, 3) natural gas comes within a mix of local production and imports, 4) 100% of the electricity used in the manufacturing plants is sourced from renewable sources (solar, co generation using biogas from biomass).

Plant specific manufacturing waste data is reported by each manufacturing location into the Pladur internal information system. Manufacturing wastes are of the following types: 1) Plasterboard wastes generated on the production lines, reprocessed internally and used back in the process after treatment (no transport), 2) Paper wastes coming from paper rolls feeding the production line with front and back paper liner, reprocessed in the plant to specialize partners for treatment and recycling.

No process liquid water is released to the environment whereas water vapour is released in the atmosphere during calcination and drying. The transport assumptions for manufacturing wastes are based on the following principle: 1) transportation distances are calculated taking into account the address of the plant where the waste is issued and the address of the third party location where the waste is treated (Google map has been used to calculate the distance), 2) the transport method reflects the actual type of transport used to convey the wastes to third party location (i.e. road transport).

The product is delivered on bio-based flex spacers, using bio-based corner reinforcement and plastic straps.
The use of green energy in manufacturing is demonstrated through contractual instruments (GOs, RECs, etc.), and its use is ensured throughout the validity period of this EPD.

TRANSPORT AND INSTALLATION (A4-A5)

Transportation impacts occurred from final products delivery to construction site (A4) cover fuel direct exhaust emissions, environmental impacts of fuel production, as well as related infrastructure emissions.

Plasterboard products are delivered by road lorry from the manufacturing location to stockists and construction sites across Spain and Portugal. The average delivery distance considered in this study is 540 km, deducted from supply chain data analysis.

The two most common drywall installations for the Pladur boards are metal framing partitions and ceilings. A variety of building systems and components are used to deliver the required performances but are outside the scope of this declaration. However, the use of screw fixings, jointing material and paper tape is common to all applications and the consumption of these are declared within this section as installation resources. A small quantity of water is also consumed in the mixing of jointing materials. We have considered that no significant amount of energy is consumed during installation. Whereas a negligeable amount of dust due to manual cutting can be released in situ (see the product technical safety datasheet for more information), we have considered that Installation does not produce any significant emissions.

5% Installation waste is considered. Installation wastes (plasterboard, packaging and installation resources) are transported by truck either to a recycling facility (20%) over a distance of 250 km or to landfill (80%) over a distance of 50 km.

PRODUCT USE AND MAINTENANCE (B1-B7)

The product has a reference service life as stated above, providing the product is installed as per Pladur Gypsum recommendations. In such case, the product will last during its life of use without any requirements for maintenance, repair, replacement, or refurbishment throughout this period, providing normal and no accidental conditions of usage are encountered.
The product will also not need any operational energy nor operational water to fulfil its duty, once installed in the building.
Air, soil, and water impacts during the use phase have not been studied.
Air, soil, and water impacts during the use phase have not been studied.

PRODUCT END OF LIFE (C1-C4, D)

At End of Life, the product is removed manually and transported by truck either to a recycling facility (20%) or to landfill (80%). No energy has been considered for C1 as it has been assumed that demolition is carried out without power tools or is using negligible amounts of energy. Module C2 is calculated using a distance of 250 km for recycling (20% of total quantity collected) or 50 km for landfilling (remaining 80%). We confirm the representativeness of this EOL scenario and that it is likely to occur.
Plasterboards, once recycled, provide gypsum in the form of powder which can be directly used in the process.

For the evaluation of the Loads and Benefits, we have considered the load of recycling of the installation wastes in A5 and the product at EOL (20% in mass) and the benefits of not using 20% of natural gypsum in A1. We have also considered the transfer of energy and biogenic CO2 content to next product life.

MANUFACTURING PROCESS

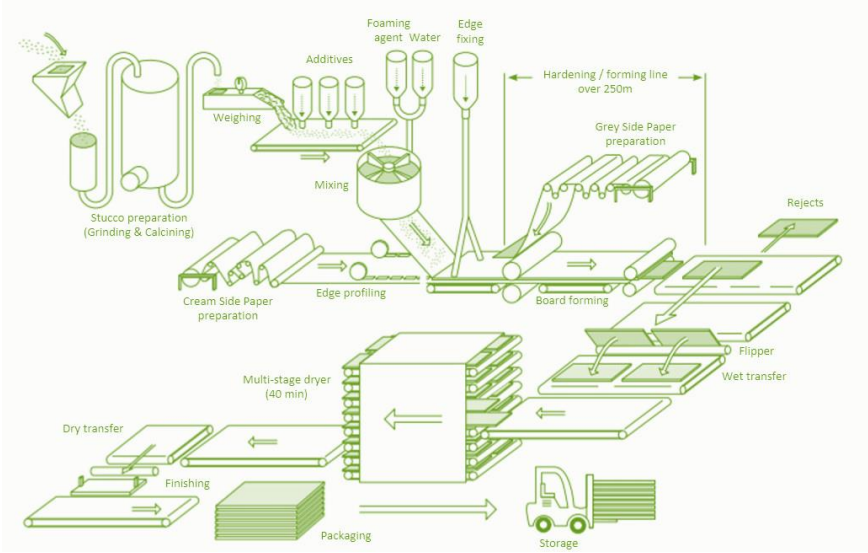
The gypsum mix is milled and calcined to plaster by heating to around 160 Celsius, then stored in silos. The plaster is then mixed with additives, wood fibres and water to form a slurry in which the rehydration back to gypsum begins. The slurry is injected between the face and back paper liners in a forming process which defines board thickness and width. During plaster setting over several minutes a high strength mechanical bond forms at the gypsum/ paper interface.

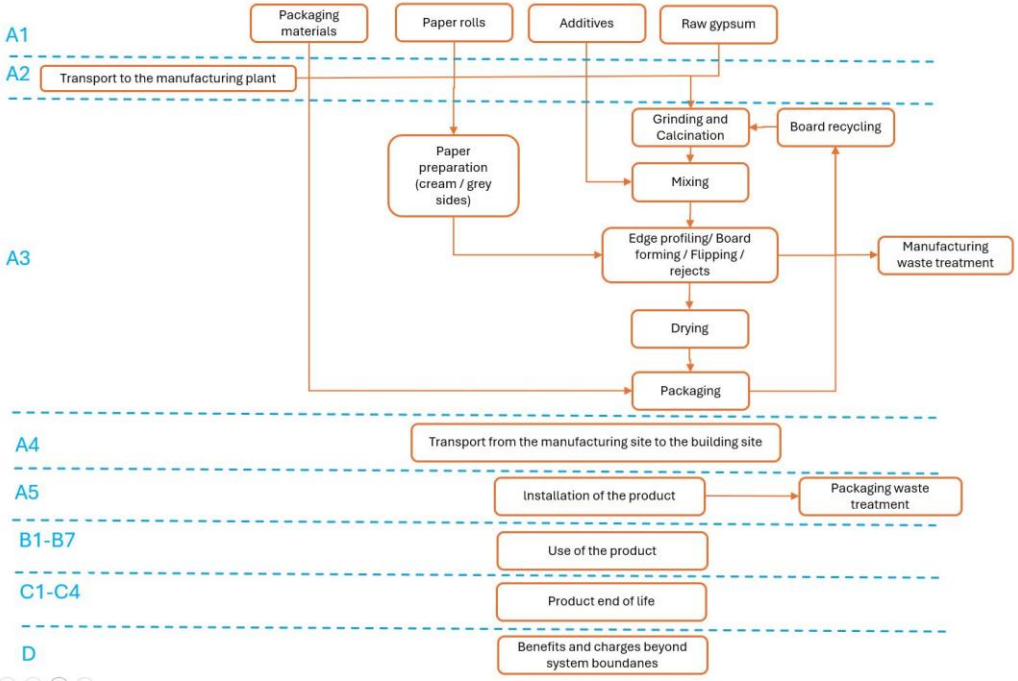
Excess water is removed from boards by passing them through a fan-assisted oven. During drying starch migrates to the surface of the gypsum core, adding further strength by means of a chemical bond. Dried boards are cut to size and then packed for storage and distribution.

See the manufacturing diagram and Life Cycle Flow diagram on the right.

Plasterboards are manufactured using state-of-the-art production equipment and following rigorous quality assurance standards, complying with EN ISO 9001:2015 and EN ISO 14001:2015, certified by third parties.

The product is manufactured on 2 production line in Valdemoro and Gelsa, Spain.





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.

The following processes are considered below cut-off:
- Packaging of raw materials, as the main raw materials (i.e. largest amounts), such as gypsum come in bulk.
- Ancillary materials for production other than lubricating oil
- Infrastructure and land use of the factory
- Environmental impacts caused by the personnel of the production plants are not included in the LCA, e.g. waste from the cafeteria and sanitary installations, accidental pollution caused by human mistakes, or environmental effects caused by commuter traffic.
- Heating or cooling of the plants in order to ensure a comfortable indoor climate for the personnel for example is also neglected.

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 in One Click LCA EPD Generator, 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	No allocation
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	Multiple factories
Grouping method	Based on average results of product group - by total volume
Variation in GWP-fossil for A1-A3, %	<5,5%

This EPD covers the 12,5 mm thick Placa Pladur® OMNIA 13 produced in Gelsa and Valdemoro, Spain. The product is manufactured with 1200 mm of panel width. LCA calculations have been carried out for the product on each specific production line (single product , multiple factories), the results have then been averaged based on production volume and the variation in GWP A1-A3 has been calculated (<5,5%)

A scaling table is provided in Annex for Placa Pladur® OMNIA 15 also produced in Gelsa and Valdemoro, Spain.

This EPD is product and factory specific.

LCA SOFTWARE AND BIBLIOGRAPHY

This EPD has been created using One Click LCA EPD Generator. The LCA and EPD have been prepared according to the reference standards and ISO 14040/14044. The EPD Generator uses Ecoinvent v3.10.1 and One Click LCA databases as sources of environmental data. Allocation used in Ecoinvent 3.10.1 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-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
GWP – total[1)]	kg CO_2e	1,97E+00	7,06E-01	3,67E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,22E-01	2,04E-01	5,78E-01	-1,83E-01
GWP – fossil	kg CO_2e	2,63E+00	7,06E-01	3,04E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,22E-01	7,58E-02	6,49E-02	-1,81E-01
GWP – biogenic	kg CO_2e	-6,84E-01	1,54E-04	6,18E-02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	4,46E-05	1,28E-01	5,13E-01	-1,52E-03
GWP – LULUC	kg CO_2e	2,87E-02	2,75E-04	1,58E-03	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	7,96E-05	2,29E-05	3,71E-05	2,01E-05
Ozone depletion pot.	kg $CFC\text{-}_{11}e$	1,28E-07	1,47E-08	8,27E-09	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	4,42E-09	1,63E-09	1,88E-09	1,48E-09
Acidification potential	mol H^+e	6,69E-03	1,67E-03	4,43E-03	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	4,62E-04	7,18E-02	4,60E-04	7,17E-02
EP-freshwater[2)]	kg Pe	3,38E-04	4,93E-05	5,14E-05	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,49E-05	8,99E-06	5,33E-06	7,51E-06
EP-marine	kg Ne	2,14E-03	4,37E-04	2,71E-04	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,11E-04	1,97E-04	1,75E-04	1,47E-04
EP-terrestrial	mol Ne	2,02E-02	4,73E-03	2,73E-03	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,20E-03	1,77E-03	1,91E-03	1,07E-03
POCP ("smog")[3)]	kg NMVOCe	8,30E-03	2,90E-03	1,27E-03	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	7,68E-04	4,97E-03	6,86E-04	4,81E-03
ADP-minerals & metals[4)]	kg Sbe	4,67E-04	2,02E-06	3,56E-05	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	7,39E-07	3,32E-07	1,03E-07	-9,29E-05
ADP-fossil resources	MJ	4,13E+01	1,06E+01	4,27E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	3,12E+00	1,22E+00	1,59E+00	1,09E+00
Water use[5)]	m^3e depr.	8,32E-01	5,43E-02	6,86E-02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,55E-02	4,10E-02	4,59E-03	3,82E-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-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Particulate matter	Incidence	8,56E-08	6,88E-08	1,76E-08	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,63E-08	8,45E-08	1,05E-08	8,12E-08
Ionizing radiation[6)]	kBq U235e	8,71E-02	1,28E-02	9,67E-03	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	4,03E-03	6,52E-03	1,00E-03	6,04E-03
Ecotoxicity (freshwater)	CTUe	5,40E+00	1,25E+00	6,31E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	4,15E-01	8,23E-01	1,34E-01	7,42E-01
Human toxicity, cancer	CTUh	6,44E-10	1,18E-10	6,07E-11	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	3,72E-11	6,81E-11	1,20E-11	5,02E-11
Human tox. non-cancer	CTUh	1,25E-08	6,85E-09	1,76E-09	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,97E-09	3,88E-09	2,75E-10	3,83E-09
SQP[7)]	-	5,44E+01	1,07E+01	6,08E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,89E+00	1,43E+00	3,13E+00	1,35E+00

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-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Renew. PER as energy[8)]	MJ	3,95E+00	1,73E-01	5,88E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	5,46E-02	1,19E-01	1,54E-02	-1,27E-01
Renew. PER as material	MJ	6,62E+00	0,00E+00	-1,01E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	-1,30E+00	-5,22E+00	4,55E-01
Total use of renew. PER	MJ	1,06E+01	1,73E-01	4,86E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	5,46E-02	-1,19E+00	-5,20E+00	3,28E-01
Non-re. PER as energy	MJ	4,04E+01	1,06E+01	4,21E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	3,12E+00	1,22E+00	1,59E+00	1,09E+00
Non-re. PER as material	MJ	1,12E+00	0,00E+00	-6,61E-02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	-2,12E-01	-8,47E-01	2,89E-01
Total use of non-re. PER	MJ	4,15E+01	1,06E+01	4,14E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	3,12E+00	1,01E+00	7,45E-01	1,38E+00
Secondary materials	kg	4,30E-01	4,59E-03	2,53E-02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,45E-03	6,61E-04	4,00E-04	5,98E-05
Renew. secondary fuels	MJ	7,70E-03	5,78E-05	6,87E-04	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,83E-05	5,54E-06	8,28E-06	-5,57E-03
Non-ren. secondary fuels	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Use of net fresh water	m^3	1,94E-02	1,56E-03	-2,79E-04	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	4,25E-04	-9,46E-03	1,66E-03	-9,53E-03

8) PER = Primary energy resources.

END OF LIFE – WASTE

Impact category	Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Hazardous waste	kg	6,11E-02	1,53E-02	8,18E-03	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	4,54E-03	1,86E-02	1,76E-03	1,82E-02
Non-hazardous waste	kg	1,56E+00	3,07E-01	2,84E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	9,57E-02	1,38E+01	4,02E-02	1,38E+01
Radioactive waste	kg	2,21E-05	3,16E-06	1,88E-05	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,00E-06	1,52E-06	2,44E-07	1,40E-06

END OF LIFE – OUTPUT FLOWS

Impact category	Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Components for re-use	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Materials for recycling	kg	2,66E-03	0,00E+00	1,35E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,60E+00	0,00E+00	0,00E+00
Materials for energy rec	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	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	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Exported energy – Electricity	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	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	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Heat		0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00

ENVIRONMENTAL IMPACTS – EN 15804+A1, CML

Impact category	Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Global Warming Pot.	kg CO_2e	2,66E+00	7,01E-01	3,09E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,20E-01	7,52E-02	6,43E-02	-1,82E-01
Ozone depletion Pot.	kg $CFC_{-11}e$	1,24E-07	1,17E-08	7,71E-09	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	3,51E-09	1,33E-09	1,49E-09	1,21E-09
Acidification	kg SO_2e	5,13E-03	1,32E-03	3,94E-03	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	3,71E-04	6,57E-02	3,40E-04	6,56E-02
Eutrophication	kg PO_4^3e	4,53E-03	3,30E-04	3,49E-04	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	9,37E-05	3,40E-04	1,08E-04	1,68E-04
POCP (“smog”)	kg C_2H_4e	5,94E-04	1,35E-04	2,06E-04	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	3,92E-05	2,64E-03	3,22E-05	2,63E-03
ADP-elements	kg Sbe	2,19E-05	1,97E-06	5,46E-06	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	7,22E-07	2,91E-07	1,01E-07	2,54E-07
ADP-fossil	MJ	3,98E+01	1,04E+01	4,08E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	3,05E+00	1,11E+00	1,58E+00	9,95E-01

ENVIRONMENTAL IMPACTS – FRENCH NATIONAL COMPLEMENTS

Impact category	Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
ADP-elements	kg Sbe	2,19E-05	1,97E-06	1,37E-06	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	7,22E-07	2,91E-07	1,01E-07	2,54E-07
Hazardous waste disposed	kg	6,11E-02	1,53E-02	8,18E-03	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	4,54E-03	1,86E-02	1,76E-03	1,82E-02
Non-haz. waste disposed	kg	1,56E+00	3,07E-01	2,84E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	9,57E-02	1,38E+01	4,02E-02	1,38E+01
Air pollution	m^3	8,99E+02	1,62E+02	1,01E+02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	3,99E+01	2,92E+02	1,48E+01	1,73E+02
Water pollution	m^3	2,57E+01	5,80E+00	2,07E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,73E+00	7,64E-01	8,09E-01	7,01E-01

Additional indicator – GWP-GHG

Impact category	Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
GWP-GHG[9)]	kg CO_2e	2,66E+00	7,06E-01	3,05E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,22E-01	7,59E-02	6,49E-02	-1,81E-01

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.

ENVIRONMENTAL IMPACTS – BEPALINGSMETODE, NETHERLANDS

Impact category	Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Shadow price	€	3,63E-01	8,54E-02	1,43E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,51E-02	2,20E+00	9,78E-03	2,19E+00
Terrestrial ecotoxicity	DCB eq	8,90E-03	2,52E-03	1,06E-03	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	7,49E-04	1,08E-03	2,30E-04	1,04E-03
Seawater ecotoxicity	DCB eq	3,74E+02	1,03E+02	9,23E+02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,91E+01	1,81E+04	9,92E+00	1,81E+04
Freshwater ecotoxicity	DCB eq	3,58E-02	9,47E-03	3,84E-03	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,62E-03	4,69E-03	7,89E-04	4,61E-03
Human ecotoxicity	DCB eq	1,39E+00	3,37E-01	2,21E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	9,29E-02	1,32E+00	3,36E-02	1,31E+00
EEE	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
ETE	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
ADP Fossil Fuels	kg Sbe	1,91E-02	5,00E-03	1,66E-03	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,47E-03	5,36E-04	7,58E-04	4,79E-04

SCENARIO DOCUMENTATION

Manufacturing energy scenario documentation

Scenario parameter	Value
Electricity data source and quality	1) Heat and power co-generation, biogas, gas engine (Reference product: electricity, high voltage); Spain; Ecoinvent 3.10.1; 2) Electricity production, photovoltaic, 3kWp slanted-roof installation, multi-Si, panel, mounted (Reference product: electricity, low voltage); Spain; Ecoinvent 3.10.1.
Electricity CO2e / kWh	0,15
District heating data source and quality	Market for heat, district or industrial, natural gas (Reference product: heat, district or industrial, natural gas), Spain; Ecoinvent 3.10.1.
District heating CO2e / kWh	0,203

Transport scenario documentation A4

Scenario parameter	Value
Fuel and vehicle type. Eg, electric truck, diesel powered truck	Road lorry >32 metric ton, EURO6
Average transport distance, km	540
Capacity utilization (including empty return) %	56
Bulk density of transported products	700
Volume capacity utilization factor	<1

Installation scenario documentation A5

Scenario information	Value
Ancillary materials for installation (specified by material) / kg or other units as appropriate	0,34 kg of gypsum compound 0,01875 of screws 0,009 kg of paper tape. Total: 0,368 kg
Water use / m^3	0,00017
Other resource use / kg	none
Quantitative description of energy type (regional mix) and consumption during the installation process / kWh or MJ	0,00250
Waste materials on the building site before waste processing, generated by the product's installation (specified by type) / kg	0,692
Output materials (specified by type) as result of waste processing at the building site e.g. collection for recycling, for energy recovery, disposal (specified by route) / kg	0,134
Direct emissions to ambient air, soil and water / kg	0,17

Use stages scenario documentation - B2 Maintenance

Scenario information	Value
Maintenance process / Description or source where description can be found	none
Maintenance cycle / Number per RSL or year *(Not applicable if only B2 is declared)*	0
Ancillary materials for maintenance, e.g. cleaning agent, specify materials / kg / cycle	0
Waste material resulting from maintenance (specify materials) / kg	0
Net fresh water consumption during maintenance / m³	0
Energy input during maintenance, e.g. vacuum cleaning, energy carrier type, e.g. electricity, and amount, if applicable and relevant / kWh	0

Use stages scenario documentation - B3 Repair

Scenario information	Value
Repair process / Description or source where description can be found	none
Inspection Process / Description or source where description can be found	none
Repair cycle / Number per RSL or year	0
Ancillary materials, e.g., lubricant (specify materials) / kg or kg/cycle	0
Waste material resulting from repair (specify materials) / kg	0
Net fresh water consumption during repair / m³	0
Energy input during repair, e.g., crane activity, energy carrier type, e.g., electricity, and amount / kWh/RSL, kWh/cycle	0

Use stages scenario documentation - B4 Replacement

Scenario information	Value
Replacement cycle / Number per RSL or year	0
Energy input during replacement, e.g., crane activity, energy carrier type, e.g., electricity and amount (if applicable and relevant) / kWh	0
Exchange of worn parts during the product's life cycle, e.g., zinc galvanized steel sheet (specify materials) / kg	0

Use stages scenario documentation - B5 Refurbishment

Scenario information	Value
Refurbishment process / Description or source where description can be found	none
Refurbishment cycle / Number per RSL or year	0
Energy input during refurbishment, e.g., crane activity, energy carrier type, e.g., electricity, and amount (if applicable and relevant) / kWh	0
Material input for refurbishment, e.g., bricks, including ancillary materials for the refurbishment process, e.g., lubricant (specify materials) / kg or kg/cycle	0
Waste material resulting from refurbishment (specify materials) / kg	0
Further assumptions for scenario development, e.g., frequency and time period of use, number of occupants / Units as appropriate	0

Use stages scenario documentation - B6-B7 Use of energy and use of water

Scenario information	Value
Ancillary materials specified by material / kg or units as appropriate	none
Net fresh water consumption / m^3	0
Type of energy carrier, e.g., electricity, natural gas, district heating / kWh	0
Power output of equipment / kW	0
Characteristic performance, e.g., energy efficiency, emissions, variation of performance with capacity utilization, etc.	0
Further assumptions for scenario development, e.g., frequency and period of use, number of occupants	0

End of life scenario documentation

Scenario information	Value
Collection process – kg collected separately	12,97
Collection process – kg collected with mixed waste	0
Recovery process – kg for re-use	0
Recovery process – kg for recycling	2,59
Recovery process – kg for energy recovery	0
Disposal (total) – kg for final deposition	10,38
Scenario assumptions e.g. transportation	-

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 15802+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

Magaly Gonzalez Vazquez as an authorized verifier for EPD Hub Limited
07.11.2025

ANNEX: SCALING TABLE

Product	Pladur® OMNIA 13	Pladur® OMNIA 15
Thickness	12,5 mm	15mm
Product Weight per FU	12,6	15,1

Impact category		Scaling factor A1-A3	Scaling factor A1-A3
EN 15804+A2, PEF	GWP – total	1,00	1,22
	GWP – fossil	1,00	1,16
	GWP – biogenic	1,00	1,00
	GWP – LULUC	1,00	0,87