



ENVIRONMENTAL PRODUCT DECLARATION

IN ACCORDANCE WITH EN 15804+A2 & ISO 14025

RUGOPENIA LISO

Pinturas de la Peña S.L.



EPD HUB, HUB-6008

Published on 07.05.2026, last updated on 07.05.2026, valid until 06.05.2031

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.



Created with One Click LCA



GENERAL INFORMATION

MANUFACTURER

Manufacturer	Pinturas de la Peña S.L.
Address	Ctra de Orgaz, s/n apdo nro 25, 45400 Mora, Toledo
Contact details	info@delapenia.com
Website	https://www.pinturasdelapenia.com/

EPD STANDARDS, SCOPE AND VERIFICATION

Program operator	EPD Hub, hub@epdhub.com
Reference standard	EN 15804+A2:2019 (EN_15804+A2:2019)
PCR	EPD Hub Core PCR Version 1.2, 24 Mar 2025
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	Celia Sanchez San Cristobal (Bureau Veritas Inspección y Testing SLU)
EPD verification	Independent verification of this EPD and data, according to ISO 14025: ☐ Internal verification ☒ External verification
EPD verifier	Sarah Curpen 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	RUGOPENIA LISO
Additional labels	-
Product reference	-
Place(s) of raw material origin	Europe
Place of production	Spain
Place(s) of installation and use	Spain
Period for data	1/01/2023-31/12/2023
Averaging in EPD	No grouping
Variation in GWP-fossil for A1-A3 (%)	-
GTIN (Global Trade Item Number)	-
NOBB (Norwegian Building Product Database)	-
A1-A3 Specific data (%)	19,2

ENVIRONMENTAL DATA SUMMARY

Declared unit	1 kg of paint
Declared unit mass	1 kg
Mass of packaging	29 g
GWP-fossil, A1-A3 (kgCO ₂ e)	0,9
GWP-total, A1-A3 (kgCO ₂ e)	0,83
Secondary material, inputs (%)	0,63
Secondary material, outputs (%)	8,61
Total energy use, A1-A3 (kWh)	3,35
Net freshwater use, A1-A3 (m ³)	0,01

PRODUCT AND MANUFACTURER

ABOUT THE MANUFACTURER

Expert paint manufacturers

Decades of research and development of techniques to ensure our products have the highest levels of quality. Our paint factory in Toledo is based on experience, commitment to our customers, and the excellence of our products thanks to cutting-edge technology.

At Pinturas de la Peña, we have been in service for more than 40 years, a novel, updated project always adapted to the needs of our customers. We continue to focus our efforts on service and direct collaboration with you.

With a great human, technological and distribution team, we continue to offer an optimal quality in all our products, a service adapted to the needs of each customer, and a sustained and competitive economy.

A path with color

Our paint factory is located in Toledo, although we have customers throughout Spain and the rest of the world, on continents such as Chile in America or Algeria in Africa, so our desire for internationalization is another of the pillars of Pinturas de la Peña.

In addition, our water-based paint base consolidates an ongoing commitment to the environment and quality, providing great products to the market with cutting-edge, innovative technology acquired over the years.

PRODUCT DESCRIPTION

Waterproofing coating paint, manufactured based on acrylic copolymers in emulsion, titanium dioxide, and fillers with a mixture of suitable particle sizes. It can be applied for both exterior and interior use; it leaves a slightly

rough matte finish. It is of excellent quality, good whiteness, and has great covering power.

Its formulation has been specially designed for the protection and decoration of exterior surfaces of mortar, cement, brick, plaster, etc. All colors have the highest resistance to light and outdoor exposure.

Paint subjected to tests according to UNE-EN 1504-2:2005 Surface protection systems for concrete by Applus (+) laboratories

Further information can be found at:
<https://www.pinturasdelapenia.com/>

PRODUCT RAW MATERIAL MAIN COMPOSITION

Raw material category	Amount, mass %	Material origin
Metals	3,39	Europe
Minerals	96,61	Europe
Fossil materials	-	-
Bio-based materials	-	-

BIOGENIC CARBON CONTENT

Product's biogenic carbon content at the factory gate

Biogenic carbon content in product, kg C	0
Biogenic carbon content in packaging, kg C	0,032

FUNCTIONAL UNIT AND SERVICE LIFE

Declared unit	1 kg of paint
Mass per declared unit	1 kg
Functional unit	-
Reference service life	-

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	Recycling	Recovery	Reuse
Raw materials	Transport	Manufacturing	Transport	Assembly	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	Deconstruction / demolition	Transport	Waste processing	Disposal				

Modules not declared = ND. 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.

The installation of PINTURAS PEÑA. It is designed for the production of paints and coatings. In the production process, the following stages:

1. Reception of raw materials. Various types of substances are used to produce the products.
2. Addition of raw materials and additives: The plant has mixers where all substances are introduced based on the proportion indicated in each formulation
3. Agitation: The materials are mixed until they acquire the desired consistency.
4. Product parameter settings.
5. Quality control: Quality control of the paints is carried out to verify the manufactured product.
6. Packaging: The prepared mixture is packaged in the desired formats.
7. Palletizing: The paint cans, once packaged, are palletized for distribution.

Both the materials that make up the paintings and the packaging used for their transport are taken into account. A 5% process loss is also considered.

TRANSPORT AND INSTALLATION (A4-A5)

This module is not included

PRODUCT USE AND MAINTENANCE (B1-B7)

This module is not included

Air, soil, and water impacts during the use phase have not been studied.

PRODUCT END OF LIFE (C1-C4, D)

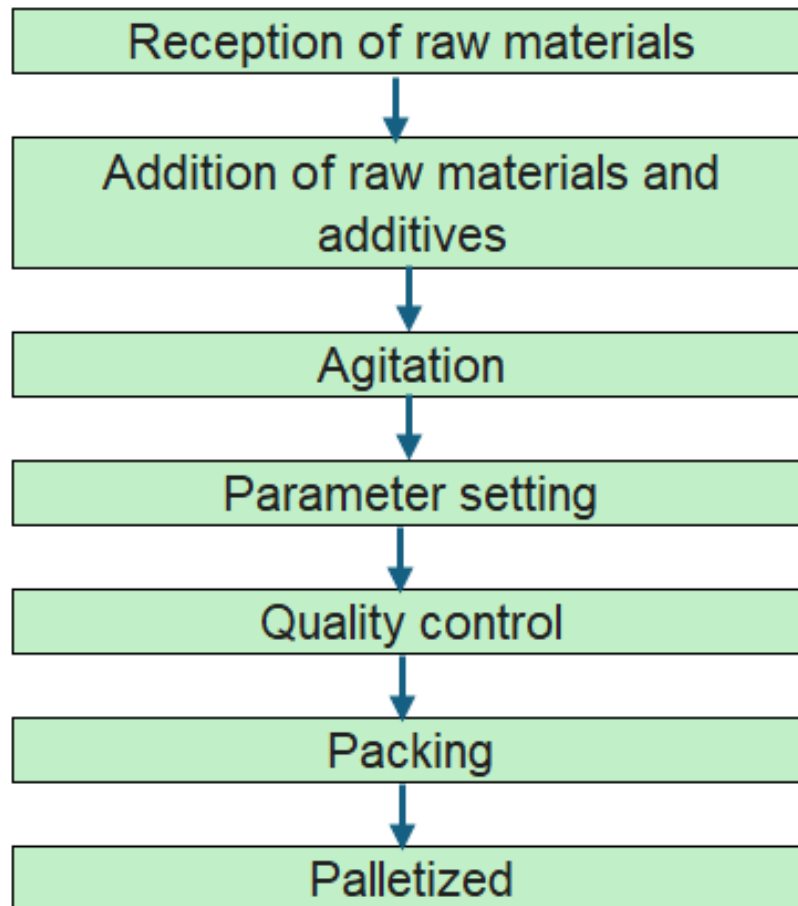
Module C1–C4 represents the point where packaging exits the system and the end-of-life of the applied paint is considered. Installation waste has been assessed and quantified, taking into account the volumes generated during the process to identify environmental impacts and management options.

In the life cycle analysis (LCA) of wall paints, the end-of-life scenario assumes that the paint film remains adhered to the substrate and is treated together with demolition waste. For this product, the following treatment routes have been modeled:

- **99% of the paint waste is incinerated with energy recovery**, generating exported energy benefits of **0.482 MJ thermal** and **0.009 MJ electricity**.
- **1% of the paint waste is landfilled** as inert material.
- Packaging waste is managed separately:
 - **Paper/cardboard**: 83% recycled, 8% incinerated, 9% landfilled.
 - **Plastic (polyethylene)**: 40% recycled, 37% incinerated, 23% landfilled.
 - **Wood**: 32% recycled, 30% incinerated, 38% landfilled.
 - **Steel**: 81% recycled, 19% landfilled.

Quantitatively, the treatment of adhered paint accounts for **0.97 kg per functional unit**, contributing **3.5 kg CO₂e (71% of emissions in this stage)**. This scenario includes material and energy recovery as well as emissions associated with each treatment route.

MANUFACTURING PROCESS



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.

To facilitate modeling and due to the lack of precision in the available modeling resources, many components less than 0.1% of the product mass are excluded, as for example: HEXAMETAFOSFATO, AFO 10, ACTICIDE LPS 2, SODASIL, ETC

Excluded are the production of capital goods, construction and infrastructure activities, maintenance and operation of capital goods, activities related to personnel, energy and water use related to the administration and sales activities of the company.

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	Partly allocated by mass or volume
Packaging material	Allocated by mass or volume
Ancillary materials	Not applicable
Manufacturing energy and waste	Allocated by mass or volume

PRODUCT & MANUFACTURING SITES GROUPING

Type of grouping	No grouping
Grouping method	Not applicable
Variation in GWP-fossil for A1-A3, %	-

This EPD is product and factory specific.

LCA SOFTWARE AND BIBLIOGRAPHY

This EPD has been created using One Click LCA EPD Generator for EPD Hub V3 v3.2.3. 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 and One Click LCA databases as sources of environmental data. Allocation used in Ecoinvent 3.10.1/3.11 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	4,96E-01	6,95E-02	2,64E-01	8,30E-01	ND	ND	ND	ND	ND	ND	ND	ND	ND	0,00E+00	1,71E-02	1,21E-01	3,49E+00	-1,67E-01
GWP – fossil	kg CO ₂ e	4,96E-01	6,94E-02	3,37E-01	9,03E-01	ND	ND	ND	ND	ND	ND	ND	ND	ND	0,00E+00	1,71E-02	1,21E-01	3,49E+00	-1,02E-01
GWP – biogenic	kg CO ₂ e	-4,06E-03	1,38E-05	-7,39E-02	-7,79E-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	0,00E+00	3,68E-06	1,31E-04	-1,45E-04	-6,49E-02
GWP – LULUC	kg CO ₂ e	4,10E-03	2,46E-05	3,25E-04	4,45E-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	0,00E+00	7,49E-06	4,86E-06	1,54E-04	2,37E-04
Ozone depletion pot.	kg CFC ₋₁₁ e	2,60E-07	1,38E-09	1,09E-08	2,72E-07	ND	ND	ND	ND	ND	ND	ND	ND	ND	0,00E+00	2,60E-10	4,37E-11	1,78E-08	-3,13E-09
Acidification potential	mol H ⁺ e	6,00E-03	2,26E-04	1,08E-03	7,31E-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	0,00E+00	5,77E-05	2,92E-05	2,56E-03	-4,45E-04
EP-freshwater ²⁾	kg Pe	1,54E-04	4,59E-06	8,49E-05	2,43E-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	0,00E+00	1,31E-06	1,13E-06	3,61E-05	-6,67E-05
EP-marine	kg Ne	5,35E-04	7,54E-05	2,34E-04	8,43E-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	0,00E+00	1,90E-05	1,48E-05	4,47E-04	-1,10E-04
EP-terrestrial	mol Ne	4,87E-03	8,20E-04	2,34E-03	8,03E-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	0,00E+00	2,07E-04	1,20E-04	4,77E-03	-1,11E-03
POCP (“smog”) ³⁾	kg NMVOCe	2,22E-03	3,46E-04	1,29E-03	3,86E-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	0,00E+00	8,55E-05	3,22E-05	2,85E-03	-5,72E-04
ADP-minerals & metals ⁴⁾	kg Sbe	5,88E-06	2,26E-07	1,87E-06	7,97E-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	0,00E+00	4,83E-08	3,41E-08	1,30E-06	-6,17E-07
ADP-fossil resources	MJ	6,32E+00	9,74E-01	7,40E+00	1,47E+01	ND	ND	ND	ND	ND	ND	ND	ND	ND	0,00E+00	2,47E-01	4,08E-02	1,57E+01	-2,46E+00
Water use ⁵⁾	m ³ e depr.	3,54E-01	4,78E-03	1,25E-01	4,84E-01	ND	ND	ND	ND	ND	ND	ND	ND	ND	0,00E+00	1,22E-03	3,69E-03	5,95E-02	6,42E-03

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	3,14E-08	5,44E-09	8,92E-09	4,58E-08	ND	ND	ND	ND	ND	ND	ND	ND	ND	0,00E+00	1,68E-09	2,99E-10	2,86E-08	-4,03E-09
Ionizing radiation ⁶⁾	kBq I1235e	4,52E-02	1,24E-03	4,21E-02	8,86E-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	0,00E+00	2,23E-04	2,75E-04	6,12E-03	-5,96E-03
Ecotoxicity (freshwater)	CTUe	1,30E+01	1,28E-01	8,75E-01	1,40E+01	ND	ND	ND	ND	ND	ND	ND	ND	ND	0,00E+00	3,47E-02	5,63E-02	4,45E+00	-2,44E-01
Human toxicity, cancer	CTUh	6,89E-10	1,18E-11	1,62E-10	8,62E-10	ND	ND	ND	ND	ND	ND	ND	ND	ND	0,00E+00	2,82E-12	4,78E-11	6,59E-09	-1,69E-11
Human tox. non-cancer	CTUh	8,86E-09	6,10E-10	2,82E-09	1,23E-08	ND	ND	ND	ND	ND	ND	ND	ND	ND	0,00E+00	1,59E-10	3,42E-10	1,06E-08	-6,41E-10
SQP ⁷⁾	-	2,96E+00	5,78E-01	2,68E+00	6,22E+00	ND	ND	ND	ND	ND	ND	ND	ND	ND	0,00E+00	2,40E-01	4,59E-02	1,17E+00	-5,63E+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	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Renew. PER as energy ⁸⁾	MJ	4,06E-01	1,68E-02	1,23E-01	5,46E-01	ND	ND	ND	ND	ND	ND	ND	ND	ND	0,00E+00	3,46E-03	-8,59E-01	-1,33E-01	-9,79E-01
Renew. PER as material	MJ	2,13E-01	0,00E+00	6,95E-01	9,08E-01	ND	ND	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	-9,08E-01	0,00E+00	5,75E-01
Total use of renew. PER	MJ	6,19E-01	1,68E-02	8,18E-01	1,45E+00	ND	ND	ND	ND	ND	ND	ND	ND	ND	0,00E+00	3,46E-03	-1,77E+00	-1,33E-01	-4,03E-01
Non-re. PER as energy	MJ	6,20E+00	9,74E-01	4,32E+00	1,15E+01	ND	ND	ND	ND	ND	ND	ND	ND	ND	0,00E+00	2,47E-01	-2,31E+00	-4,27E+00	-2,47E+00
Non-re. PER as material	MJ	5,49E-01	0,00E+00	2,27E+00	2,82E+00	ND	ND	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	-2,82E+00	0,00E+00	1,21E+00
Total use of non-re. PER	MJ	6,75E+00	9,74E-01	6,59E+00	1,43E+01	ND	ND	ND	ND	ND	ND	ND	ND	ND	0,00E+00	2,47E-01	-5,13E+00	-4,27E+00	-1,26E+00
Secondary materials	kg	6,28E-03	4,46E-04	1,27E-02	1,95E-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	0,00E+00	1,06E-04	1,44E-04	6,25E-03	6,63E-02
Renew. secondary fuels	MJ	7,00E-05	5,62E-06	1,10E-03	1,17E-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	0,00E+00	1,34E-06	1,19E-06	9,39E-06	-3,73E-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	1,06E-02	1,31E-04	2,72E-03	1,35E-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	0,00E+00	3,62E-05	4,15E-05	1,53E-03	4,47E-05

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	6,19E-02	1,40E-03	1,78E-02	8,11E-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	0,00E+00	4,13E-04	2,00E-03	4,01E-02	-7,13E-03
Non-hazardous waste	kg	3,05E+00	2,94E-02	1,97E+00	5,05E+00	ND	ND	ND	ND	ND	ND	ND	ND	ND	0,00E+00	7,72E-03	6,91E-02	4,03E-01	-7,19E-01
Radioactive waste	kg	9,52E-06	3,08E-07	1,07E-05	2,06E-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	0,00E+00	5,48E-08	7,03E-08	1,50E-06	-1,52E-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	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
Materials for recycling	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	8,61E-02	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	8,70E-02	8,70E-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	5,34E-01	0,00E+00	0,00E+00
Exported energy – Electricity	MJ	0,00E+00	0,00E+00	3,70E-02	3,70E-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	2,28E-01	0,00E+00	0,00E+00
Exported energy – Heat	MJ	0,00E+00	0,00E+00	5,00E-02	5,00E-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	3,06E-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	5,01E-01	6,95E-02	3,38E-01	9,08E-01	ND	ND	ND	ND	ND	ND	ND	ND	ND	0,00E+00	1,71E-02	1,21E-01	3,49E+00	-1,02E-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.

SCENARIO DOCUMENTATION

DATA SOURCES

Manufacturing energy scenario documentation

1. Electricity voltage transformation, residual mix, from medium to low voltage, Spain, Ecoinvent, 0.43 kgCO₂e/kWh

Use stages scenario documentation - C1-C4 (Data source)

1. Treatment of waste paint, hazardous waste incineration, Ecoinvent, 0.96 kg
2. Treatment of waste paint, sanitary landfill, Ecoinvent, 0.0097 kg
3. Treatment of waste paper, unsorted, sorting, Ecoinvent, Materials for recycling, 0.042 kg
4. Treatment of waste packaging paper, municipal incineration, Ecoinvent, 0.004 kg
5. Exported Energy: Thermal, Ecoinvent, 0.013 MJ
6. Exported Energy: Thermal, Ecoinvent, 0.24 MJ
7. Exported Energy: Thermal, Ecoinvent, 0.023 MJ
8. Exported Energy: Thermal, Ecoinvent, 0.03 MJ
9. Exported Energy: Electricity, Ecoinvent, 0.009 MJ
10. Exported Energy: Electricity, Ecoinvent, 0.18 MJ
11. Exported Energy: Electricity, Ecoinvent, 0.017 MJ
12. Exported Energy: Electricity, Ecoinvent, 0.022 MJ
13. Treatment of waste packaging paper, sanitary landfill, Ecoinvent, 0.0045 kg
14. Treatment of waste polyethylene, for recycling, unsorted, sorting, Ecoinvent, Materials for recycling, 0.028 kg
15. Treatment of waste polyethylene, municipal incineration, Ecoinvent, 0.026 kg
16. Treatment of waste polyethylene, sanitary landfill, Ecoinvent, 0.016 kg
17. Treatment of waste wood, post-consumer, sorting and shredding, Ecoinvent, Materials for recycling, 0.008 kg
18. Treatment of waste wood, untreated, municipal incineration, Ecoinvent, 0.0075 kg
19. Treatment of waste wood, untreated, sanitary landfill, Ecoinvent, 0.0095 kg
20. Treatment of metal scrap, mixed, for recycling, unsorted, sorting, Ecoinvent,

Materials for recycling, 0.0081 kg

21. Treatment of scrap steel, inert material landfill, Ecoinvent, 0.0019 kg

22. Treatment of waste paint, municipal incineration, Ecoinvent, 0.014 kg

23. Treatment of waste paint, inert material landfill, Ecoinvent, 0.017 kg

Scenario information	Value
Scenario assumptions e.g. transportation	50-150 km

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

Sarah Curpen as an authorized verifier for EPD Hub Limited 07.05.2026

