

BREEAM Mat 02 — Product Carbon Data Sheet

A&L Systems Seam & Reveal aluminium service channels — supporting data for BREEAM environmental impact of materials credits

A&L Systems' Seam (flush) and Reveal (recessed) service channels are UK-manufactured, pre-coordinated extruded aluminium profiles, produced from Cortizo Infinity billet with a minimum of 80% recycled aluminium content. The billet carries a third-party verified Environmental Product Declaration (EPD); this sheet presents that verified material data alongside A&L Systems' own calculated per-metre product carbon figures.

BREEAM Mat 02 — Environmental impacts from construction products.

Mat 02 awards EPD points where a construction product's environmental impact is backed by a third-party verified EPD, product-specific, compliant with EN 15804 or ISO 21930 and published by a recognised programme operator. The Cortizo Infinity billet EPD referenced below meets these criteria (product-specific, EN 15804+A2:2020, ISO 14025, externally verified, unexpired) and can be submitted as supporting evidence for the raw material content of A&L Systems Seam and Reveal channels. Confirm current scoring and EPD-point weightings (product-specific / manufacturer-specific / industry-average) with your BREEAM assessor, as these are assessed per project.

BILLET-LEVEL LCA DATA (PER KG, AS DECLARED IN THE VERIFIED EPD)

Life cycle module	kg CO2e / kg billet
A1-A3 (raw material supply, manufacturing)	2.40
A4 (transport to gate)	0.06
C2 (transport, end of life)	0.003
C3 (waste processing)	0.29
C4 (disposal)	0.0003
Module D (recycling credit)	-1.71
Full lifecycle, net of Module D	1.84

A&L SYSTEMS PRODUCT CARBON FOOTPRINT (PER LINEAR METRE, BY FACE WIDTH)

Profile	Extrusion only, uncoated (kg CO2e/m)	Once powder coated (kg CO2e/m)	Full lifecycle net Module D, powder coated (kg CO2e/m)
Seam 100mm	3.46	4.25	2.79
Seam 125mm	3.89	4.79	3.14
Seam 150mm	4.32	5.32	3.49
Seam 200mm	5.18	6.38	4.18
Seam 300mm	6.91	8.51	5.58
Reveal 100mm	6.91	8.51	5.58
Reveal 125mm	7.34	9.04	5.93
Reveal 150mm	7.78	9.57	6.28
Reveal 200mm	8.64	10.63	6.97
Reveal 300mm	10.37	12.76	8.37

REFERENCE EPD

Underlying material EPD:

Tocho Cortizo INFINITY® aluminium billet (minimum 80% recycled content) · Declaration DAPcons®.100.129 · Declaration holder: Aluminios Cortizo, S.A.U. · Programme: DAPconstruction®, operated by Cateb (Col·legi d'Aparelladors, Arquitectes Tècnics i Enginyers d'Edificació de Barcelona) · Standards: ISO 14025 and EN 15804+A2:2020 · PCR: RCP 100 v3 (27/05/2021) · Third-party verified: external verification by an accredited DAPcons® verifier · Registered: 04/10/2022 · Valid: 02/12/2022 to 02/12/2027.

Billet-level figures (A1-A3, A4, C2-C4, Module D) are drawn directly from the third-party verified Cortizo Infinity EPD referenced above. A&L Systems' per-metre product figures are calculated from that billet data plus A&L's own extrusion, coating and profile geometry assumptions (25% extrusion process uplift per Hydro Aluminum Extrusions EPD methodology; powder coating per Climatiq/ AusLCl aluminium sheet coating dataset) — these product-level calculations are A&L Systems' own figures and have not themselves been through third-party EPD verification. Full assumptions, sources and formulas are available in the supporting workbook on request.

80%
RECICLADO
POSCONSUMO



DAPcons[®].100.129

DECLARACIÓN AMBIENTAL DE PRODUCTO
ENVIRONMENTAL PRODUCT DECLARATION

According to the standards:
ISO 14025 y EN 15804 + A2:2020



DECLARACIÓN AMBIENTAL DE PRODUCTO ENVIRONMENTAL PRODUCT DECLARATION

DAPcons®.100.129

According to the standards:
ISO 14025 y EN UNE 15804 + A2:2020



GENERAL INFORMATION

Product

Tocho Cortizo INFINITY®

Company



Product description

An INFINITY aluminum billet is a cylindrical aluminum ingot obtained after a casting process, aluminium billets can be of different diameters, as they are used as an intermediate product in other industries. The aluminum billet has a minimum of 80% recycled aluminum.

Reference RCP

RCP 100 (version 3 - 27/05/2021) Construction products in general

Production plant

The production of Cortizo INFINITY Tochos is carried out in the Cortizo production plant in Padrón (La Coruña), to be used in different companies in Spain and France. Carretera Padrón a Noya, km 2, 15901 Padrón, (Galicia)

Validity

From: 02/12/2022 Until: 02/12/2027

The validity of DAPcons®.100.129 is subject to the conditions of the regulation DAPcons®. The current edition of this DAPcons® is the one that appears in the registry maintained by Cateb; for informational purposes, it is included on the Program website www.csostenible.net

EXECUTIVE SUMMARY

Tocho Cortizo INFINITY®

**DAPconstruction® PROGRAMME**

Environmental Product Declarations in the Construction sector
www.csostenible.net

**Programme Manager**

Colegio de la Arquitectura Técnica de Barcelona (Cateb)
Bon Pastor, 5 · 08021 Barcelona www.apabcn.cat

**Declaration Holder**

ALUMINIOS CORTIZO, S.A.U.
Extramundi, s/n 15910 - LA CORUNYA (1)

**Statement made by:**

Marcel Gómez Consultoria Ambiental
Torrent de Vallmora 24-26 1º 2ª, 08320 - BARCELONA, España

Declared product

Tocho Cortizo INFINITY®

Geographic representation

Europe

Variability between different products

EPD specific to the product.

Declaration number

DAPcons®.100.129

Registration date

04/10/2022

Validity

This verified declaration authorizes its holder to carry the logo of the operator of the ecolabelling program DAPconstruction®. The declaration is applicable exclusively to the mentioned product and for five years from the date of registration. The information contained in this statement was provided under the responsibility of:

ALUMINIOS CORTIZO, S.A.U.

Programme Administrator Signature

Celestí Ventura Cisternas. President of Cateb

Programme Verifier Signature

Lorena Pereda Pereda. Verifier accredited by the administrator of the DAPcons® Programme

ENVIRONMENTAL PRODUCT DECLARATION

1. DESCRIPTION OF THE PRODUCT AND ITS USE

An aluminum billet is a cylindrical aluminum ingot obtained after having undergone a casting process; aluminum billets can be of different diameters.

Cortizo has different production lines, such as casting, extrusion, lacquering, anodizing, chemical brightening, or machining, although for the product covered by this EPD the only production line used is the casting line.

The smelting line consists of melting or remelting aluminum. Cortizo has two remelting plants in Asturias and Padrón, the company has a production capacity of 43.000 tonnes per year, and alloys can be made to measure according to each customer's requirements. Specifically for the product covered by the EPD, casting is carried out at the plant located in Padrón.

The Cortizo AluInfinity billet is made of at least 80% post-consumer recycled aluminum. The remaining 20% may be pre-consumer recycled aluminum or virgin aluminum, so a billet can be obtained with 100% recycled aluminum. The billet is produced with a length of 6 meters and in different diameters (144, 153, 178, 203, 254, and 305 mm), it can also be produced in different alloys depending on the customer's needs, although the most common are 6063 and 6060.

For the different diameters considered, the composition and production process is the same. The maximum billet weight per linear meter is 198 kg/m and the minimum is 52 kg/m. This EPD refers to 1 kg of product, irrespective of the weight and dimensions of the billet.

The product is classified under UN CPC code: 41532 as Aluminium alloy bars, rods, angles, shapes, and sections.

TECHNICAL CHARACTERISTICS OF THE PRODUCT

The main aluminium alloy used for the production of this type of billet is 6063. The technical characteristics of this alloy are given below.

Name	Typical values for alloy 6063	Units
Density	2700	Kg/m ³
Bond point	495 - 640	°C
Modulus of elasticity	68600	Mpa
Thermal conductivity	201 (T5 State); 209 (T6 State)	W/(m*K)
Coefficient of thermal expansion (20°C to 100°C)	23,5E10-6	by C°
Composition	>98	% by mass

PRODUCT COMPOSITION

Raw material	Percentage, %	Post-consumer material, weight %	Renewable material, weight %
Virgin aluminium	20%	0%	0%
Recycled aluminium	80%	100%	0%
Total	100%	80%	0%
Packaging materials	Weight, kg	Weight % (versus product)	Post-consumer material, weight % (vs. product)
Pallet	0,000075	0,0075%	0%
Fieje	0,0001	0,01%	0%
Total	0,000175	0,0175%	0%

2. DESCRIPTION OF THE STAGES OF THE LIFE CYCLE

2.1. Manufacturing (A1, A2 y A3)

Raw Materials (A1 y A2)

Module A1 takes into account the raw material extraction and processing of the raw materials that make up the product. The generation of energy consumed upstream during the manufacture of the components is also assigned to this module, and packaging waste is not considered.

Module A2 includes the raw material transport from the manufacturer to the production plant. For virgin

aluminum, a distance between the plant and the supplier of 2.5 km has been considered as the producer is from Padrón. On the other hand, for recycled aluminum, the data provided by the company has been used, taking into account all the recycled aluminum sub-suppliers. A large lorry with a capacity of more than 32 tonnes was used for transport.

Manufacturing (A3)

This module includes the consumption of fuels (burning diesel and natural gas), water, lubricating oils, and packaging materials used during the manufacturing process of the Tocho Cortizo Infinity. At the same time, the emissions in the factory that do not originate in the combustion of fossil fuels are analyzed, as well as the transport and management of waste originating in the plant and which is treated in an external center, although in this case it is considered that it is recycled and therefore its management does not generate any impact. The distance between the plant and the waste managers has been considered to be 50 km when they are in Galicia without the exact location being specified, and the specific distance for the waste managers when the exact location of the waste managers have been provided.

The primary data used in the study were obtained from the company itself and are representative data for production in 2021.

The electricity mix considered is that provided by the company itself regarding the supplier's mix, with 48% renewable energy, 4% high-efficiency cogeneration, 17% cogeneration with natural gas, 3% coal, 1% fuel oil/gas, 20% nuclear and 7% other non-renewable sources.

2.2. Building (A4 y A5)

Transport of the product to the work (A4)

Module A4: Transport

Includes the transport of finished and packaged products from the factory gate to the company where they are to be used. For distribution, the transport of the parts to Spain and France is considered. For the calculation, an average distance of 600 km has been considered for distribution in Spain and 1200 km in France. It has also been considered that 50% of the products are distributed in Spain and 50% in France.

Table 1. Scenarios applied for the transport of the product to the place of installation

Destinations	Type of transport	Percentage	Average km
Spain	Large truck over 32 tons capacity	50	600
Europe	Large truck over 32 tons capacity	50	1200
ROW	N/A	0	0
		Total 100%	

Product installation process and construction (A5)

Undeclared

2.3. Product use (B1-B7)

Use (B1)

Undeclared

Maintenance (B2)

Undeclared

Repair (B3)

Undeclared

Substitution (B4)

Undeclared

Rehabilitation (B5)

Undeclared

Operational energy use (B6)

Undeclared

Operational water use (B7)

Undeclared

2.4. End of life (C1-C4)

Deconstruction and demolition (C1)

Manual uninstallation.

Transportation (C2)

The distance to the waste management plant has been estimated to be 50 km.

Waste management for reuse, recovery and recycling (C3)

Pre-treatment of waste before recycling is considered.

Ultimate elimination (C4)

It has been considered that 10% of the waste is sent to landfill, while the remaining 90% is recycled, according to Annex C v.2.1 (May 2020) of the EU PEFCR Guidance.

2.5. Potential environmental benefits and burdens beyond the system boundary (D)

In this module, the benefits obtained from the recycling of aluminum are declared, taking into account the substitution of virgin material that can be saved by recycling it.

For the calculation of this module, the percentage of virgin material used in the product (20%) and the recycling rate of aluminum billets (90%) have been taken into account, as the recycling of aluminum that has already been obtained from other recycled aluminum is not taken into account, which means that the environmental effects of

recycling have been taken into account up to the point of functional equivalence.

3. LIFE CYCLE ANALYSIS

The life cycle analysis on which this study is based on the following standards: ISO 14040 and ISO 14044.

The following standards have also been taken into account: RCP 100. General construction products. Version 3 - 27.05.2021.

This EPD is of the "cradle to gate with options" type, stating the stages of production, distribution, and end of life of the product.

Data from the company CORTIZO located in Padrón (A Coruña) have been used with specific data for the year 2021.

3.1. Functional Unit

Manufacture, distribution, and end-of-life of 1 kg of Cortizo Infinity aluminum billet, with 80% recycled aluminum and 20% virgin aluminum.

Four reasons have been taken into account for the selection of this declared unit and not as a functional unit:

- The product is manufactured with the same production processes, in different diameters and different alloys with different uses, being an intermediate product.
- The entire life cycle of the product is not considered.
- There are published EPDs of competitors with this same declared unit.
- The production of this billet is considered in mass (kg) by the same company.

3.2. System limits

Table 2. Declared modules

Product stage		Construction Process Stage				Use stage					End of life stage				Benefits and loads beyond the system boundaries	
Raw materials supply	Transport	Manufacturing	Transport	Construction - Installation process	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	De-construction	Transport	Waste processing	Disposal	Reuse, recovery, recycling potential
A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
X	X	X	X	MND	MND	MND	MND	MND	MND	MND	MND	X	X	X	X	X

X = Declared module

MND = Undeclared module

3.3. Life cycle analysis data (ACV)

Table 3. Parameters of environmental impact

Parameter	Unit	Life cycle stage														Module D	
		Product stage	Construction Process Stage					Use stage					End of life stage				
		A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4		
Climate change - total (GWP-total)	kg CO2 eq	2.40E+00	6.27E-02	MND	MND	MND	MND	MND	MND	MND	MND	0.00E+00	3.49E-03	2.87E-01	2.53E-04	-1.71E+00	
Climate change - fossil (GWP-fossil)	kg CO2 eq	2.35E+00	6.27E-02	MND	MND	MND	MND	MND	MND	MND	MND	0.00E+00	3.48E-03	2.82E-01	2.52E-04	-1.67E+00	
Climate change - biogenic (GWP-biogenic)	kg CO2 eq	1.50E-02	1.84E-05	MND	MND	MND	MND	MND	MND	MND	MND	0.00E+00	1.02E-06	4.49E-03	1.45E-07	-1.03E-02	
Climate change - land use and changes in land use (GWP-luluc)	kg CO2 eq	3.61E-02	1.19E-06	MND	MND	MND	MND	MND	MND	MND	MND	0.00E+00	6.64E-08	3.44E-04	8.59E-09	-3.07E-02	
Ozone layer depletion (ODP)	kg CFC 11 eq	1.84E-07	1.46E-08	MND	MND	MND	MND	MND	MND	MND	MND	0.00E+00	8.14E-10	1.25E-08	5.24E-11	-1.25E-07	
Acidification (AP)	mol H+ eq	1.54E-02	1.34E-04	MND	MND	MND	MND	MND	MND	MND	MND	0.00E+00	7.44E-06	9.73E-04	2.60E-06	-1.23E-02	
Eutrophication of fresh water (EP-freshwater)	kg P eq	8.63E-05	1.50E-07	MND	MND	MND	MND	MND	MND	MND	MND	0.00E+00	8.31E-09	4.48E-06	8.96E-10	-7.04E-05	
Eutrophication of sea water (EP-marine)	kg N eq.	1.92E-03	2.23E-05	MND	MND	MND	MND	MND	MND	MND	MND	0.00E+00	1.24E-06	1.92E-04	1.13E-06	-1.45E-03	
Terrestrial eutrophication (EP-terrestrial)	mol N eq.	2.13E-02	2.48E-04	MND	MND	MND	MND	MND	MND	MND	MND	0.00E+00	1.38E-05	2.15E-03	1.24E-05	-1.62E-02	
Photochemical ozone formation (POCP)	kg NMVOC eq	7.05E-03	8.63E-05	MND	MND	MND	MND	MND	MND	MND	MND	0.00E+00	4.79E-06	5.93E-04	3.45E-06	-5.41E-03	
Depletion of abiotic resources - minerals and metals (ADP-minerals&metals)	kg Sb eq	5.26E-06	5.37E-09	MND	MND	MND	MND	MND	MND	MND	MND	0.00E+00	2.98E-10	6.13E-06	1.22E-11	-1.54E-07	
Depletion of abiotic resources - fossil fuels (ADP-fossil)	MJ, net calorific value	2.92E+01	9.16E-01	MND	MND	MND	MND	MND	MND	MND	MND	0.00E+00	5.09E-02	1.70E+00	3.36E-03	-2.11E+01	
Water consumption (WDP)	m3 worldwide eq. private	5.38E-01	3.55E-04	MND	MND	MND	MND	MND	MND	MND	MND	0.00E+00	1.97E-05	2.05E-02	1.36E-06	-4.16E-01	
The Indicator includes all greenhouse gases included in GWP-total but excludes biogenic carbon dioxide uptake and emissions and biogenic carbon stored in the product. This Indicator is thus equal to the GWP Indicator originally defined in EN 15804:2012+A1:2013. Can be obtained from IPCC characterization factors.																	
Global Warming Potential (GHG)	kg CO2 eq	2.32E+00	6.23E-02	MND	MND	MND	MND	MND	MND	MND	MND	0.00E+00	3.46E-03	2.81E-01	2.48E-04	-1.65E+00	

The Indicator includes all greenhouse gases included in GWP-total but excludes biogenic carbon dioxide uptake and emissions and biogenic carbon stored in the product. This Indicator is thus equal to the GWP Indicator originally defined in EN 15804:2012+A1:2013. Can be obtained from IPCC characterization factors.

A1 Supply of raw materials.**A2** Transportation. **A3** Manufacturing. **A4** Transportation. **A5** Installation and construction processes. **B1** Use. **B2** Maintenance. **B3** Repair. **B4** Substitution. **B5** Rehabilitation. **B6** Operational energy use. **B7** Operational water use. **C1** Deconstruction and demolition. **C2** Transportation. **C3** Waste management for reuse, recovery and recycling. **C4** Fine removal. **D** Environmental benefits and burdens beyond the system boundary. **MND** Undeclared module.

Table 4. Parameters for the use of resources, waste and output material flows

Parameter	Unit	Life cycle stage																Module D
		Product stage			Construction Process Stage		Use stage							End of life stage				
		A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	
Use of renewable primary energy excluding renewable primary energy resources used as feedstock	MJ, net calorific value	8.90E+00	3.74E-04	2.03E-01	1.19E-03	MND	MND	MND	MND	MND	MND	MND	MND	0.00E+00	6.62E-05	1.34E-01	1.41E-05	-7.58E+00
Use of renewable primary energy used as raw material	MJ, net calorific value	0.00E+00	0.00E+00	1.43E-03	0.00E+00	MND	MND	MND	MND	MND	MND	MND	MND	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Total use of renewable primary energy (primary energy and renewable primary energy resources used as feedstock)	MJ, net calorific value	8.90E+00	3.74E-04	2.05E-01	1.19E-03	MND	MND	MND	MND	MND	MND	MND	MND	0.00E+00	6.62E-05	1.34E-01	1.41E-05	-7.58E+00
Non-renewable primary energy use, excluding non-renewable primary energy resources used as feedstock	MJ, net calorific value	2.79E+01	3.04E-01	3.04E+00	9.72E-01	MND	MND	MND	MND	MND	MND	MND	MND	0.00E+00	5.40E-02	1.82E+00	3.57E-03	-2.25E+01
Use of non-renewable primary energy used as raw material	MJ, net calorific value	0.00E+00	0.00E+00	4.76E-03	0.00E+00	MND	MND	MND	MND	MND	MND	MND	MND	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Total use of non-renewable primary energy (primary energy and renewable primary energy resources used as feedstock)	MJ, net calorific value	2.79E+01	3.04E-01	3.05E+00	9.72E-01	MND	MND	MND	MND	MND	MND	MND	MND	0.00E+00	5.40E-02	1.82E+00	3.57E-03	-2.25E+01
Use of secondary materials	kg	8.00E-01	0.00E+00	0.00E+00	0.00E+00	MND	MND	MND	MND	MND	MND	MND	MND	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of renewable secondary fuels	MJ, net calorific value	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND	MND	MND	MND	MND	MND	MND	MND	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of non-renewable secondary fuels	MJ, net calorific value	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND	MND	MND	MND	MND	MND	MND	MND	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Net use of freshwater resources	m3	5.04E-02	6.51E-06	1.26E-03	2.21E-05	MND	MND	MND	MND	MND	MND	MND	MND	0.00E+00	1.23E-06	7.65E-04	7.19E-08	-4.30E-02
Hazardous waste removed	kg	5.48E-03	7.32E-07	2.44E-06	2.48E-06	MND	MND	MND	MND	MND	MND	MND	MND	0.00E+00	1.37E-07	6.60E-03	8.48E-09	-1.09E-05
Non-hazardous waste eliminated	kg	5.14E-01	7.13E-05	5.14E-04	2.42E-04	MND	MND	MND	MND	MND	MND	MND	MND	0.00E+00	1.34E-05	3.02E-02	9.99E-02	-4.22E-01
Radioactive waste disposed of	kg	1.07E-04	2.03E-06	5.11E-06	6.46E-06	MND	MND	MND	MND	MND	MND	MND	MND	0.00E+00	3.59E-07	5.54E-06	2.32E-08	-8.61E-05
Components for reuse	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND	MND	MND	MND	MND	MND	MND	MND	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	5.40E-02	0.00E+00	MND	MND	MND	MND	MND	MND	MND	MND	0.00E+00	9.00E-01	0.00E+00	0.00E+00	0.00E+00
Materials for energy recovery (energy recovery)	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND	MND	MND	MND	MND	MND	MND	MND	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Exported energy	MJ by energy vector	0.00E+00	0.00E+00	0.00E+00	0.00E+00	MND	MND	MND	MND	MND	MND	MND	MND	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

A1 Supply of raw materials.A2 Transportation. A3 Manufacturing. A4 Transportation. A5 Installation and construction processes. B1 Use. B2 Maintenance. B3 Repair. B4 Substitution. B5 Rehabilitation. B6 Operational energy use. B7 Operational water use. C1 Deconstruction and demolition. C2 Transportation. C3 Waste management for reuse, recovery and recycling. C4 Fine removal. D Environmental benefits and burdens beyond the system boundary. MND Undeclared module.

Table 5. Kg of biogenic carbon

Product	0.00
Packaging	1.38E-04

3.4. Recommendations of this DAP

No recommendations are made in this EPD.

3.5. Cutting rules

- 95% of all mass and energy inputs and outputs of the core system, identified in the life cycle inventory included in this report, and at least 99% for the total life cycle, have been included.

3.6. Additional environmental information

- The following processes have been excluded:
 - o Manufacture of equipment used in production, buildings, or any other capital assets.
 - o Transport of personnel to the plant
 - o Transportation of personnel within the plant
 - o Research and development activities
 - o Long-term emissions
 - o End-of-life treatment for packaging materials.
- The principle of modularity has been followed, as well as the polluter pays principle.

3.7. Other data

- Technical support for the implementation of the EPD: Marcel Gómez Consultoría Ambiental.
- The electricity mix used in the manufacturing plant is the Iberdrola mix provided by the company itself.
- Allocation processes: Wherever possible, the allocation has been avoided, but for energy consumption, waste production, and distribution, the allocation has had to be made on the basis of physical mass considerations.
- EPDs within the same product category but from different programs may not be comparable.

4. ADDITIONAL TECHNICAL INFORMATION AND SCENARIOS

4.1. Transportation from the factory to the construction site (A4)

Parameter	Parameter expressed per functional unit
Type and fuel consumption, type of vehicle used for transportation	Diesel, consumption of 0.0192 kg/tkm Truck >32 t EURO 6
Distance	600 km for distribution in Spain (50% product) 1200 km for distribution in France (50% product)
Capacity utilization (including empty return)	Percentage assimilated in the Ecoinvent database
Apparent density of transported product	2700 kg/m ³
Useful capacity factor (1, <1 or >1 for products that are packed compressed or nested)	1

4.2. Installation processes (A5)

Undeclared

4.3. Reference life (B1)

Undeclared

4.4. Maintenance (B2), Repair (B3), Substitution (B4), or Rehabilitation (B5)

Maintenance (B2)

Undeclared

Repair (B3)

Undeclared

Substitution (B4)

Undeclared

Rehabilitation (B5)

Undeclared

4.6. Use of energy (B6) and water (B7) in service

Undeclared

4.7. End of life (C1-C4)

Process					
	Collection processes (specified by types)	Recovery systems (specified by type)			Elimination
	kg collected with mixed construction waste	kg for reuse	kg for recycling	kg for energy recovery	kg for final disposal
	1	0	0.9	0	0.1
Assumptions for scenario development		Distance to the waste manager considered in 50 km			

5. ADDITIONAL INFORMATION

LCA software and database used: Simapro 9.3 calculation software and Ecoinvent 3.8 database were used for the development of the study.

Certifications related to the product or management system implemented by Cortizo:- ISO 9001: quality control system. Certificate number: ES121043-1- ISO 45001: PRL, industrial safety, and health surveillance. Certificate number: ES119146-1- ISO 14001: Environmental Management Systems. Certificate number: ES111867-1

The product does not include during its life cycle any hazardous substance included in the "Candidate List of Substances of Very High Concern for Authorisation (SVHC)" in a percentage higher than 0.1% of the weight of the product.

The estimated impact results are only relative statements that do not indicate endpoints of impact categories, exceeding threshold values, safety margins, or risks.

6. RCP AND VERIFICATION

This statement is based on Document

RCP 100 (version 3 - 27/05/2021) Construction products in general

Independent verification of the declaration and data, in accordance with ISO 14025 and IN RCP 100 (version 3 - 27/05/2021)



External

Third party Verifier

Lorena Pereda Pereda

Accredited by the administrator of the DAPcons®

Programme

Verification date:

02/12/2022

References

- Underlying life cycle analysis (2020).
- General standards of the DAP®construction programme.
- RCP100 - Construction products in general - V.3 (2021).
- UNE-EN 15804:2012+A2:2020 Sustainability in construction. Environmental Product Declarations.
- ISO 14040:2006 Environmental management - Life cycle assessment - Principles and framework.
- ISO 14044:2006 Environmental management - Life cycle assessment - Requirements and guidelines.
- ISO 14025:2006 Environmental labels and declarations - Type III environmental declarations - Principles and procedures.
- ISO 14020:2000 Environmental labels and declarations - General principles.
- ISO 21930:2017 Sustainability in building construction. Environmental declaration of construction products and services.

Programme Manager

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