Environmental Product Declaration





In accordance with ISO 14025:2006 and EN 15804:2012+A2:2019/AC:2021 for:

Wood and metal benches ACC BANCO UNIVERSE

EPD of multiple products, based on a representative product from

Escofet by Molins°

Programme: The International EPD® System, <u>www.environdec.com</u>

Programme operator: EPD International AB EPD registration number: EPD-IES-0004289

Publication date: 2024-08-09 Valid until: 2029-08-07

An EPD should provide current information and may be updated if conditions change. The stated validity is therefore subject to the continued registration and publication at www.environdec.com







General information

Programme information

Programme:	The International EPD® System							
	EPD International AB							
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Accountabilities for PCR, LCA and independent, third-party verification								
Product Category Rules (PCR)								
CEN standard EN 15804 serves as the Core Product Category Rules (PCR)								
Product Category Rules (PCR): PCR 2019:14 Construction products, version 1.3.4 Published on 2024.04.30, valid until: 2025.06.20 & PCR-021 Furniture valid until 2024.10.01 adopted from NPCR 026:2022 Part B for Furniture del Global Program Operator EPD-Norway, valid until: 2024.07.01								
PCR review was conducted by: The Technical Committee of the International EPD System. A full list of members available on www.environdec.com. The review panel may be conacted via info@environdec.com. No chair appointed.								
Life Cycle Assessment (LCA)								
LCA accountability: Anthesis Group								
Third-party verification								
Independent third-party verification of the declaration and data, according to ISO 14025:2006, via:								
Third-party verification: Tecnalia R&I Certificacion, SL, info@tecnaliacertificacion.com is an approved certification body accountable for the third-party verification								
The certification body is accredited by: ENAC nº125/C-PR283 accreditation.								
Procedure for follow-up of data during EPD validity involves third party verifier:								
⊠ Yes □ No								

The EPD owner has the sole ownership, liability, and responsibility for the EPD.

EPDs within the same product category but registered in different EPD programmes, or not compliant with EN 15804, may not be comparable. For two EPDs to be comparable, they must be based on the same PCR (including the same version number) or be based on fully-aligned PCRs or versions of PCRs; cover products with identical functions, technical performances and use (e.g. identical declared/functional units); have equivalent system boundaries and descriptions of data; apply equivalent data quality requirements, methods of data collection, and allocation methods; apply identical cut-off rules and impact assessment methods (including the same version of characterisation factors); have equivalent content declarations; and be valid at the time of comparison. For further information about comparability, see EN 15804 and ISO 14025.





Company information

Owner of the EPD: Escofet 1886 S.A.

Contact: Ramón Muntadas - rmuntadas@escofet.com

<u>Description of the organisation:</u> Escofet is a company located in Barcelona with more than 135 years of history, which through the design and manufacture of urban elements and architectural concrete, transforms cities and enhances the use of public space.

<u>Product-related or management system-related certifications:</u> ISO 14001 Environmental Management System, ISO 9001 Quality Management System and Forest Stewardship Council (FSC®).

Name and location of production site: Escofet 1886 S.A., Montserrat 162, 08760 Martorell, Barcelona (Spain)

Product information

Product name: Escofet wood and metal bench ACC BANCO UNIVERSE.

<u>Product identification:</u> This EPD covers a FSC wood and steel family of 11 benches represented by the product ACC BANCO UNIVERSE produced at Martorell (Spain), which is the best-selling product of this family of products and represents 34% of the total production of this family.

This family covers warm seating elements with clean and timeless lines composed of a seat and backrest made of FSC® certified wood along with protective metal supports. The wood and metal family includes the incorporation of a colour palette designed to integrate the demands of public and private space.

The following table includes the multiple products that covers this EPD:

Product	Weight (kg)
ACC BANCO UNIVERSE MADERA TROPICAL FSC	46
KANJI BANCO 175 MADERA TROPICAL FSC	35
LONGO ACCESORIO BANCO MADERA TROPICAL FSC	92
NOMO BANCO 190 MADERA FSCPINO	56
MONTENY BANCO 150 MADERA TROPICAL FSC	42
KIWI 180 APOYABRAZOS MADERA TROPICAL FSC	51
BANCO MOOK 220 MADERA TROPICAL FSC	116
TRAMET BANCA	185
REST BACKREST 150 MADERA TROPICAL FSC	13
BANCA CHAISE LASAI 180 MADERA TROPICAL FSC	146
SISA BANCO 150 MADERA PINO FSC	39

<u>Product description:</u> The universe urban bench with armrests is composed with 19 slats of FSC® certified tropical wood with a section of 35 x 40 mm and smoothed edges. It has with an area of 180 x 57 x 4 (62) cm and weights 46 kg. The slats at the top and bottom ends rounded. The steel supports are painted in a textured silver color. The screws are made of stainless steel.

UN CPC code: 3811 Seats.





<u>Geographical scope:</u> All raw materials are provided by Spanish suppliers but the products under study can be sell at a global scale. The following table shows the sales of the family of wood and steel benches:

Country	Total sales (%)						
Europe	92						
America	7						
Asia/Africa/Oceania	1						

LCA information

Declared unit: One bench made of FSC wood and steel.

<u>Estimated service life:</u> 25 years. This approach has been based on the experience provided by the service life of similar products made of wood and metal.

<u>Time representativeness:</u> All specific data related to the production plant and used for the study dates from 2023.

<u>Database(s)</u> and <u>LCA</u> software used: The primary inventory data has been obtained from Escofet corresponding to 11 different wood and metal benches produced at Martorell (Spain) for the year 2023. Data is for the representative product.

The secondary data has been extracted from the Ecoinvent v3.10 database, included in the SimaPro v9.6 software and internationally recognized. Wherever possible, inventory data relating to the specific study countries, or in its absence from Europe in general, has been selected. These have been used for the stage of production and transport of raw materials, as well as for electricity generation or waste management processes, over which the manufacturer has no direct influence.

Description of system boundaries:

This is a type 3 EPD. Therefore, this EPD report considers the scope "cradle to gate with options, modules C1–C4, module D and with optional modules A4 and A5", covering the modules of extraction and processing of raw materials (A1), their transportation to the production plant (A2), the wood and steel bench manufacturing process (A3), the distribution to the final client (A4) and installation (A5), end of life (C1-C4) and potential benefits and loads from the reuse and recycling of the wood and steel at its end of life (D).

The use of the wood and steel benches (B1-B7) does not require any maintenance, repair, replacement or refurbishment. Moreover, no operational energy or water use is necessary. Therefore, the use stage has not impact.

Applicable lifecycle stages with the system boundaries and processes are described below.

Product stage (A1-A3):

- Raw material supply (A1): This module considers the extraction and processing of raw materials used for the manufacture of the wood and steel bench. Likewise, the production of the energy necessary for the manufacturing process (electricity and diesel) is also taken into account. Regarding electricity consumption, a 100% renewable electrical mix of 100% hydraulic origin has been modelled corresponding to the energy consumed at the Escofet plant. The production of 1 kWh of electricity consumed by the Escofet manufacturing plant in Martorell (Barcelona) in 2023 generates 0.0128 kg CO₂ eq.





- Transport of the raw materials (A2): This module consists of the transportation of all raw materials covered by module A1, from the extraction, production, and treatment site to the factory, considering the specific distances of each material supplier.
- Manufacturing of wood and steel bench (A3): This module refers to the assembly process of the wood and steel bench in the production plant. It includes the combustion of diesel and the water consumed during the manufacturing process. It also considers the waste generated from the assembly process: the treatment and transport from the production plant to the waste manager. Finally, it considers the packaging used for distribution: the production of the primary and secondary packaging of the product (wooden pallet), and the transport of this packaging from suppliers to the Escofet factory.

The structure of the supports is made of machined steel plate, zinc plated and painted silver with a textured finish. The bench is protected against corrosion for a C5 atmospheric corrosivity category according to UNE-EN ISO 12944-2 standard. The slatted seats are made of FSC® certified tropical wood protected with single-layer oil.

Installation stage (A4-A5):

- Transport to the installation site (A4): The bench is transported to the installation point by truck or ship depending on the destination. The distance included corresponds to the weighted average between sales and the distance to each installation site.

Scenario information	Unit (expressed per declared unit)					
Fuel type and consumption of vehicle or vehicle type used for transport e.g. long distance truck, boat, etc.	Road transport by >32 metric tonne lorry (Euro VI) Sea freight transport by container ship					
Distance (weighted average)	844 km by road and 2,309 km by sea					
Capacity utilisation (including empty returns)	61% load factor including empty returns					
Bulk density of transported products	46 kg/m ³					
Volume capacity utilisation factor (factor: =1 or <1 or ≥ 1 for compressed or nested packaged products)	Factor <1					

- Installation (A5): For this stage is included the electricity and additional materials (epoxy resin) necessary to carry out the correct installation of the product at the installation site. The waste treatment of the product packaging is also included in this phase.

Scenario information	Unit (expressed per declared unit)
Ancillary materials for installation (specified by material)	0.18 kg of epoxy resin
Water use	0 m ³
Other resource use	No applicable





Quantitative description of energy type (regional mix) and consumption during the installation process	0.005 kWh, considering an allocation between the medium voltage residual mix of the countries where the product is sold.
Waste materials on the building site before waste processing, generated by the product's installation (specified by type)	Wood waste: 14 kg
Output materials (specified by type) as result of waste processing at the building site e.g. of collection for recycling, for energy recovery, disposal (specified by route)	Wood for incineration: 3.22 kg Wood for recycling: 9.24 kg Wood to landfill: 1.54 kg
Direct emissions to ambient air, soil and water	0 kg

The following table presents the end-of-life scenario that has been considered for those wastes generated during the installation of the products at the construction site.

End of life	Wood
Disposal – landfill	11%
Disposal – incineration	23%
Recycling	66%

End of life stage (C1-C4):

- Deinstallation (C1): This includes the electricity necessary for the dismantling of the bench after its use with a screwdriver.
- Transport to the waste processing site (C2): This module considers a default distance of 50 km between the building site and the waste manager facility.
- Waste processing (C3): This module includes the process of melting the steel and treatment of the wood, a fundamental procedure in sustainable waste management in the construction sector. This module includes an additional transport of 100 km to represent the transport from the collection point to the location where the recycling of the material takes place.
- Disposal (C4): This module includes the final discharge of waste that has not been destined for recovery or treatment processes.





Units for declared unit (1 bench)									
Collection	Collected s		46 kg						
process specified by type	Collected with mixed		0 kg						
Material		Wo	od	S	Steel				
Waterial		Kg	%	Kg	%				
Waste recovery process	Reuse	0	0	0	0				
	Recycling	24.21 kg	73.1%	12.87 kg	100%				
•	Energy recovery	0	0	0	0				
Wasta dianasal	Landfill	0.78 kg	0.78 kg 2.34%		0				
Waste disposal	Incineration without energy recovery	8.11 kg 24.5%		0	0				
Assumptions for scenario development, e.g. transportation	Waste is transported 50 km to Waste is transported 100 km to								

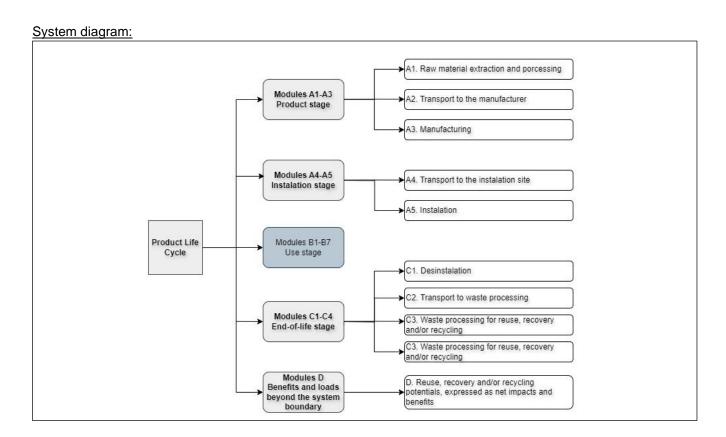
Benefits and loads beyond the system boundary (D): This module analyses the benefits and burdens related to the processes of recovery, reuse or recycling of waste from the product under study at their end of life, which could form part of the life cycle of a new product.

	Units for declared unit (1 bench)	Kg	%
Benefits and loads	Wood for recycling	24.21	73.1
beyond the system boundary (D)	Steel for recycling	12.87	100

Material	MMR out (%)	MMR in (%)	Quality factor
Wood	0.75	0	1
Steel	1	0	1

The scenarios for modules C1-C4 and D are realistic and representative of one of the most probable alternatives. The scenarios do not include processes or procedures that are not in current use or whose feasibility have not been demonstrated.





More information:

Company website for more information: escofet.com Name and contact information of LCA practitioner:

Anthesis Group Rambla de Catalunya, 6, principal, 08007 Barcelona +34 938 515 055 www.anthesisgroup.com

Cut-off rules:

In accordance with the provisions of the PCR 2019:14 construction products, version 1.3.4 and the standard UNE-EN 15804:2012+A2:2020, 100% of total inflows (raw materials and energy) and outflows (including wastes) per module have been considered.

The following processes have not been included in the scope of the study:

- Manufacture of equipment used in production, buildings or any other assets.
- Business trips.
- Maintenance activities at the production plants and research and development.
- Transportation of personnel to and within the plants.
- Diffuse particle emissions during the transport and storage of raw materials.

Infrastructure and capital goods for upstream, core and downstream processes has been excluded.

Allocation procedures

- The electricity and diesel consumption, and the plant waste production of the product has been calculated using a mass allocation, by dividing the total electricity consumption of the plant by total of units of bench produced.





- For the rest of the production plant energy consumptions as well as for waste produced a mass allocation were used. It was calculated using the total units produced in 2023.
- For module A5, C3 and C4, the end-of-life treatment of each material has been assigned according to the most common treatment of the materials that compose them among the European countries where the benches are distributed.

<u>Data quality requirements:</u> The quality of the data used to calculate this LCA meets the following requirements:

- Used background data are of recognised prestige and acceptance in the technical and scientific
 fields. In particular, the Ecoinvent v3.10 database, the most recent version existing at the time
 of the study, is considered to be of preferential use.
- Regionally specific datasets were used to model the energy consumption (electricity or diesel). For the processes of transport, production of raw materials or end-of-life, datasets were chosen according to their technological and geographical representation of the actual process.





Modules declared, geographical scope, share of specific data (in GWP-GHG results) and data variation (in GWP-GHG results):

	Product stage Construct process stage				ess	Use stage						End of life stage				re	esource ecovery stage	
	Raw material supply	Transport	Manufacturing	Transport	Construction installation	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	De-construction demolition	Transport	Waste processing	Disposal		Reuse-Recovery-Recycling- potential
Module	A 1	A2	А3	A4	A5	B1	B2	В3	B4	B5	В6	В7	C1	C2	C3	C4		D
Modules declared	х	х	х	х	Х	ND	ND	ND	ND	ND	ND	ND	х	х	Х	х		х
Geography	EU	EU	ES	EU	GLO	ND	ND	ND	ND	ND	ND	ND	EU	EU	EU	EU		EU
Specific data used	15.2%		-	-	-	-	-	-	-	-	-	-	-	-	-		-	
Variation – products	(-52%/+776%)		-	-	-	-	-	-	-	-	-	-	-	-	-		-	
Variation – sites	0%		-	-	-	-	-	-	-	-	-	-	-	-	-		-	

Content information

The following table describes the material content, including the biogenic, of the representative product ACC BANCO UNIVERSE of the family of FSC wood and steel benches of Escofet. The product does not have any dangerous substances from the candidate list of SVHC for Authorisation.

Product components	Weight, kg	Post-consumer material, weight-%	Biogenic material, weight-%	Biogenic material, weight-kg C/unit
FSC wood	33.11	0	100	16.55
Steel	12.87	0	0	0
Nylon	0.01	0	0	0
TOTAL	46	0	71.97	16.55
Packaging materials	Weight, kg	Weight-% (versus the product)	Weight biogenic carbon, kg C/unit	Weight biogenic carbon dioxide, kg CO ₂ /unit
Wood pallet	14	30.43	7	25.7





Results of the environmental performance indicators

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

It is discouraged the use of the results of modules A1-A3 without considering the results of module C.

The EN reference packaged based on EF 3.1 has been used.

Mandatory impact category indicators according to EN 15804

				R	esults per	declared un	nit					
Indicator	Unit	A1	A2	А3	A1-A3	A4	A5	C 1	C2	C3	C4	D
GWP-fossil	kg CO₂ eq.	5.68E+01	2.45E-01	4.62E+00	6.17E+01	8.70E-02	1.12E+00	3.54E-01	3.49E-01	1.95E+00	9.22E-02	-1.98E+01
GWP-biogenic	kg CO₂ eq.	-1.54E+01	8.36E-06	-2.57E+01	- 4.11E+01	3.01E-06	2.58E+01	6.87E-05	1.19E-05	1.21E+01	4.52E+00	1.19E-02
GWP- luluc	kg CO ₂ eq.	5.83E-02	6.01E-06	7.42E-04	5.91E-02	2.28E-06	5.65E-04	4.56E-05	8.57E-06	2.40E-04	1.09E-05	-5.85E-03
GWP- total	kg CO ₂ eq.	4.15E+01	2.45E-01	-2.11E+01	2.07E+01	8.70E-02	2.69E+01	3.54E-01	3.49E-01	1.40E+01	4.61E+00	-1.98E+01
ODP	kg CFC 11 eq.	5.05E-07	4.99E-09	1.02E-08	5.20E-07	1.70E-09	3.60E-08	6.27E-09	7.12E-09	3.32E-08	1.16E-09	-2.94E-08
AP	mol H⁺ eq.	2.14E-01	2.85E-04	4.58E-02	2.60E-01	7.65E-04	3.90E-03	9.26E-04	4.07E-04	1.22E-02	1.20E-03	-6.45E-02
EP-freshwater	kg P eq.	3.09E-03	2.05E-07	1.55E-05	3.10E-03	7.39E-08	2.70E-05	9.35E-06	2.93E-07	8.33E-06	7.53E-07	9.22E-04
EP- marine	kg N eq.	4.81E-02	6.33E-05	2.28E-02	7.09E-02	1.88E-04	9.49E-04	1.91E-04	9.03E-05	5.36E-03	6.29E-04	-1.26E-02
EP-terrestrial	mol N eq.	5.13E-01	6.92E-04	2.50E-01	7.64E-01	2.09E-03	9.92E-03	2.09E-03	9.88E-04	5.79E-02	6.44E-03	-1.93E-01
POCP	kg NMVOC eq.	1.94E-01	6.19E-04	6.80E-02	2.63E-01	6.76E-04	4.66E-03	8.41E-04	8.83E-04	1.77E-02	1.61E-03	-5.58E-02





ADP- minerals&metals*	kg Sb eq.	2.23E-04	8.09E-09	1.31E-07	2.23E-04	2.46E-09	1.50E-07	1.79E-08	1.15E-08	2.33E-07	3.27E-08	-1.58E-04
ADP-fossil*	MJ	6.95E+02	3.23E+00	7.25E+00	7.06E+02	1.16E+00	2.10E+01	9.47E+00	4.61E+00	2.37E+01	7.72E-01	-1.67E+02
WDP*	m³	9.31E+00	1.37E-03	1.07E-01	9.42E+00	4.80E-04	-4.13E-02	8.53E-02	1.96E-03	4.10E-01	3.97E-02	1.87E+00
Acronyms	change; ODP = of nutrien Eutrophication	Depletion pote ts reaching fre n potential, Acc	ential of the stra shwater end co cumulated Exc	atospheric ozo ompartment; E eedance; POC	ne layer; AP = P-marine = Eu CP = Formation	Global Warming Acidification pourrophication pourrophication pourrophication pourroptential; WDP =	otential, Accum tential, fraction opospheric ozo	ulated Exceed of nutrients re ne; ADP-mine	lance; EP-fresleaching marine rals&metals = /	hwater = Eutro e end compartn Abiotic depletic	phication potenent; EP-terrenent potential fo	ential, fraction estrial = r non-fossil

^{*} Disclaimer: The results of this environmental impact indicator shall be used with care as the uncertainties of these results are high or as there is limited experience with the indicator.





Additional mandatory and voluntary impact category indicators

					Results p	er declared (unit					
Indicator	Unit	A 1	A2	А3	A1-A3	A4	A5	C1	C2	C3	C4	D
GWP-GHG ¹	kg CO ₂ eq.	5.80E+01	2.45E-01	4.62E+00	6.29E+01	8.70E-02	1.21E+00	3.54E-01	3.49E-01	1.95E+00	1.41E-01	-1.98E+01
PM	disease inc.	3.36E-06	1.45E-08	1.41E-06	4.78E-06	5.55E-09	4.71E-08	2.44E-09	2.07E-08	4.74E-07	1.22E-08	-1.34E-06
IRP ³	kBq U-235 eq	1.11E+00	4.40E-04	5.80E-03	1.12E+00	1.43E-04	2.33E-02	8.51E-02	6.28E-04	1.15E-02	2.33E-04	9.27E-02
ETP-fw ²	CTUe	1.60E+03	9.72E-03	7.44E-01	1.60E+03	3.83E-03	2.21E+01	1.93E-02	1.39E-02	2.08E-01	4.67E-02	-6.14E+02
HTP-c ²	CTUh	7.02E-06	1.70E-11	2.71E-09	7.03E-06	8.24E-12	1.03E-08	6.17E-11	2.43E-11	1.47E-09	3.81E-10	-2.70E-06
HTP-nc ²	CTUh	4.40E-07	1.62E-09	3.56E-09	4.45E-07	5.99E-10	1.09E-08	1.09E-09	2.32E-09	4.46E-08	1.56E-08	1.27E-06
SQP ²	Pt	1.25E+03	7.23E-03	7.67E+01	1.33E+03	2.42E-03	1.81E+00	4.59E-01	1.03E-02	4.81E-01	1.94E-01	-8.68E+02
Acronyms	GWP-GHG :	= Potential global Hui				te matter; IRP =						nic; HTP-c =

¹This indicator accounts for all greenhouse gases except biogenic carbon dioxide uptake and emissions and biogenic carbon stored in the product. As such, the indicator is identical to GWP-total except that the CF for biogenic CO₂ is set to zero.

²The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high or as there is limited experienced with the indicator

³This 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





Resource use indicators

					Resu	ılts per decl	ared unit					
Indicator	Unit	A 1	A2	А3	A1-A3	A4	A5	C1	C2	C3	C4	D
PERE	MJ	5.77E+02	7.06E+02	1.14E-02	-2.43E+02	4.63E+02	3.67E-03	7.56E-01	2.61E-01	1.63E-02	3.77E-01	1.01E-02
PERM	MJ	0.00E+00	0.00E+00	0.00E+00	2.58E+02	2.58E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PERT	MJ	5.77E+02	7.06E+02	1.14E-02	1.43E+01	7.20E+02	3.67E-03	7.56E-01	2.61E-01	1.63E-02	3.77E-01	1.01E-02
PENRE	MJ	-3.80E+02	3.84E+02	3.33E-02	7.76E-01	3.85E+02	1.20E-02	4.88E+00	5.62E+00	4.76E-02	1.47E+00	9.96E-02
PENRM	MJ	6.10E+02	0.00E+00	0.00E+00	1.01E-02	1.01E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PENRT	MJ	2.30E+02	3.84E+02	3.33E-02	7.86E-01	3.85E+02	1.20E-02	4.88E+00	5.62E+00	4.76E-02	1.47E+00	9.96E-02
SM	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
RSF	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
NRSF	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
FW	m ³	9.31E+00	1.37E-03	1.07E-01	9.42E+00	4.80E-04	-4.13E-02	8.53E-02	1.96E-03	4.10E-01	3.97E-02	1.87E+00
Acronyms	raw m	= Use of renew naterials; PERT s raw materials; Use of s	= Total use of re PENRM = Use	enewable prima of non-renewab	ry energy resoul	rces; PENRE = gy resources use	Use of non-reneed as raw mater	ewable primary of ials; PENRT = 1	energy excludin Fotal use of non	g non-renewable -renewable prim	e primary energ	y resources





Waste indicators

	Results per declared unit											
Indicator	Unit	A 1	A2	А3	A1-A3	A 4	A5	C1	C2	C 3	C4	D
Hazardous waste disposed	kg	4.39E-03	2.14E-05	4.68E-05	4.46E-03	7.20E-06	3.72E-04	2.02E-05	3.06E-05	1.67E-04	4.45E-06	-2.17E-03
Non-hazardous waste disposed	kg	9.48E-01	9.85E-05	1.22E-02	9.61E-01	3.15E-05	1.58E+00	1.45E-03	1.40E-04	2.19E-01	8.62E-01	3.47E-01
Radioactive waste disposed	kg	7.85E-04	3.04E-07	4.56E-06	7.90E-04	9.55E-08	1.74E-05	6.39E-05	4.33E-07	8.41E-06	1.53E-07	5.42E-05

Output flow indicators

					Result	ts per declare	ed unit					
Indicator	Unit	A 1	A2	А3	A1-A3	A 4	A 5	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
Material for recycling	kg	0,00E+00	0,00E+00	9.57E-02	9.57E-02	0,00E+00	9,24E+00	0,00E+00	0,00E+00	3,71E+01	0,00E+00	0,00E+00
Materials for energy recovery	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
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
Exported energy, thermal	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

Escofet by Molins°

ENVIRONMENTAL CATEGORY AND INDICATOR	A1-A3 RAW MATERIALS SUPPLY & MANUFACTURIN G	A4 DISTRIBUTI ON	A5 INSTALATI ON	C1 DES INSTALATION	C2 TRANSPORT	C3 WASTE PROCESSI NG	C4 DISPOSAL
Global Warming Potential (GWP) kg CO₂ eq.	2.07E+01	8.70E-02	2.69E+01	3.54E-01	3.49E-01	1.40E+01	4.61E+00
Depletion of the ozone layer (ODP) kg CFC11 eq.	5.20E-07	1.70E-09	3.60E-08	6.27E-09	7.12E-09	3.32E-08	1.16E-09
Depletion of abiotic resources – materials and metals (ADP-minerals & metals) kg Sb eq	2.23E-04	2.46E-09	1.50E-07	1.79E-08	1.15E-08	2.33E-07	3.27E-08
Depletion of abiotic resources – fossil fuels (ADP-fossil) MJ	7.06E+02	1.16E+00 	2.10E+01	9.47E+00 ——	4.61E+00 ——	2.37E+01	7.72E-01



Variation of the environmental performance of the FSC wood and steel bench family of products from the representative product ACC BANCO UNIVERSE

The impact difference between the following benches from the FSC wood and steel family is mainly due to the difference in size between them, as they share a very similar composition which includes the same raw materials.

					Results p	er decla	ared unit					
Indicator	Unit	ACC BANCO UNIVERSE	KANJI BANCO 175	LONGO ACCESORI O BANCO	NOMO BANCO 190	MONTSE NY BANCO 150	KIWI 180 APOYABRA ZOS	BANCO MOOK 220	TRAMET BANCA	REST BACKRE ST 150	BANCA CHAISE LASAI 180	SISA BANCO 150
GWP- total	kg CO ₂ eq.	100%	-13%	1%	57%	730%	578%	330%	330%	-52%	403%	50%
GWP- biogeni c	kg CO ₂ eq.	100%	-14%	-11%	70%	-69%	-74%	370%	337%	-60%	441%	60%
GWP- fossil	kg CO ₂ eq.	100%	-13%	1%	57%	746%	590%	329%	330%	-52%	403%	50%
GWP- luluc	kg CO ₂ eq.	100%	-21%	69%	35%	324%	269%	145%	155%	-67%	281%	5%
ODP	kg CFC 11 eq.	100%	-13%	10%	49%	252%	198%	259%	258%	-49%	335%	37%
AP	mol H+ eq.	100%	-12%	3%	51%	1799%	1441%	292%	286%	-48%	365%	45%
EP- freshwa ter	kg P eq.	100%	-16%	13%	58%	948%	755%	330%	329%	-59%	423%	48%
EP- marine	kg N eq.	100%	-11%	11%	42%	734%	586%	230%	238%	-42%	290%	32%
EP- terrestri al	mol N eq.	100%	-11%	10%	40%	756%	604%	227%	231%	-42%	289%	32%
POCP	kg NMVO C eq.	100%	-12%	14%	41%	663%	530%	222%	219%	-44%	295%	31%
ADP- mineral s&meta Is	kg Sb eq.	100%	-15%	-11%	65%	-49%	-56%	403%	380%	-56%	515%	67%
ADP- fossil	MJ	100%	-13%	3%	58%	628%	497%	311%	302%	-52%	394%	48%
WDP	m³	100%	-11%	2%	76%	413%	323%	368%	379%	-56%	457%	57%

Acrony ms GWP-fossil = Global Warming Potential fossil fuels; GWP-biogenic = Global Warming Potential biogenic; GWP-luluc = Global Warming Potential land use and land use change; ODP = Depletion potential of the stratospheric ozone layer; AP = Acidification potential. Accumulated Exceedance; EP-freshwater = Eutrophication potential. fraction of nutrients reaching freshwater end compartment; EP-marine = Eutrophication potential. fraction of nutrients reaching marine end compartment; EP-terrestrial = Eutrophication potential. Accumulated Exceedance; POCP = Formation potential of tropospheric ozone; ADP-minerals&metals = Abiotic depletion potential for non-fossil resources; ADP-fossil = Abiotic depletion for fossil resources potential; WDP = Water (user) deprivation potential. deprivation-weighted water consumption



References

- Environdec Programme: The International EPD System https://www.environdec.com/home
- General Programme Instructions (GPI) of the International EPD system. version 4.0.
- ISO/TR 14047: 2003 Environmental management Life Cycle Assessment LCI application examples.
- ISO/TS 14048: 2003 Environmental management Life Cycle Assessment Data inventory.
- ISO/TR 14049: 2000 Environmental management Life Cycle Assessment Examples of application of objectives and scope and inventory analysis.
- NPCR 026 Part B for Furniture and components of furniture (references to EN 15804 +A2) published on 29 September 2022. valid until 1 July 2024.
- The Product Category Rules (PCR) "PCR 2019:14 Construction products. version 1.3.4 published on 30 April 2024. valid until 20 June 2025" based on the European standard UNE-EN 15804:2012+A2:2020.
- UNE-EN ISO 14040:2006 Environmental management Life Cycle Assessment Principles and framework.
- UNE-EN ISO 14044:2006 Environmental management Life Cycle Assessment Requirements.
- UNE-EN 15804:2012+A2: Sustainability in construction. Product environmental statements. Commodity category rules for construction products.





VERIFICATION STATEMENT CERTIFICATE

CERTIFICADO DE DECLARACIÓN DE VERIFICACIÓN

Certificate No. / Certificado nº: EPD11204

TECNALIA R&I CERTIFICACION S.L., confirms that independent third-party verification has been conducted of the Environmental Product Declaration (EPD) on behalf of:

TECNALIA R&I CERTIFICACION S.L., confirma que se ha realizado verificación de tercera parte independiente de la Declaración Ambiental de Producto (DAP) en nombre de:

ESCOFET 1886, S.A.

Montserrat 162

08760 MARTORELL (Barcelona) - SPAIN

for the following product(s):
para el siguiente(s) producto(s):

Wood and metal benches – ACC BANCO UNIVERSE Bancos de madera y metal – ACC BANCO UNIVERSE

with registration number **EPD-IES-0004289** in the International EPD® System (www.environdec.com). con número de registro **EPD-IES-0004289** en el Sistema International EPD® (www.environdec.com).

it's in conformity with: es conforme con:

- ISO 14025:2010 Environmental labels and declarations. Type III environmental declarations.
- General Programme Instructions for the International EPD® System v4.0.
- PCR 2019:14 Construction products (EN 15804:A2) v1.3.4
- c-PCR-021-Furniture (Adopted from EPD Norway).
- UN CPC 811 Seats.

Issued date / Fecha de emisión:08/08/2024Update date / Fecha de actualización:08/08/2024Valid until / Válido hasta:07/08/2029Serial № / № Serie:EPD1120400-E

Carlos Nazabal Alsua Manager



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