

Environmental Product Declaration

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

Acoustic sheet IMPACTODAN

IMPACTODAN 5 | IMPACTODAN 10 | CONFORDAN ECO | CONFORDAN BT

The complete list of products can be found in the Product Information section

EPD of multiple products, based on a representative product

from

DANOSA – Derivados Asfálticos Normalizados, S.A.



Programme:

The International EPD System, www.environdec.com

Programme operator:

EPD International AB

Type of EPD:

EPD of multiple products from a company

EPD registration number:

EPD-IES-0001924:002 (S-P-01924)

Version date:

2026-01-02

Validity date:

2031-01-02

An EPD may be updated or republished if conditions change. To find the latest version of the EPD and to confirm its validity, see www.environdec.com



GENERAL INFORMATION

Programme Information	
Programme:	The International EPD® System
Address:	EPD International AB Box 210 60 SE-100 31 Stockholm Sweden
Website:	www.environdec.com
E-mail:	support@.environdec.com

Product Category Rules (PCR)
CEN standard EN 15804 serves as the Core Product Category Rules (PCR)
Product Category Rules (PCR): <i>International EPD System, PCR for Construction Products, 2019:14, version 2.0.1.</i> c-PCR-014, version 1.0.0 - Acoustical ceiling and wall solutions.
PCR review was conducted by: <i>International EPD® System, Technical Committee. Chair: Rob Rouwette. Contact info@.environdec.com.</i>

Third-party Verification
Independent third-party verification of the declaration and data, according to ISO 14025:2006, via:
<input checked="" type="checkbox"/> Individual EPD verification without a pre-verified LCA/EPD tool Third-party verifier: <i>Elisabet Amat, GREENIZE</i> Approved by: International EPD System
Procedure for follow-up of data during EPD validity involves third party verifier: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

EPDs within the same product category but published in different EPD programmes, may not be comparable. For two EPDs to be comparable, they shall be based on the same PCR (including the same first-digit 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 identical scope in terms of included life-cycle stages (unless the excluded life-cycle stage is demonstrated to be insignificant); apply identical impact assessment methods (including the same version of characterisation factors); and be valid at the time of comparison.
For further information about comparability, see EN 15804 and ISO 14025.

INFORMATION ABOUT EPD OWNER

Owner of the EPD: DANOSA GROUP, S.A.

Address: Polígono Industrial Sector 9, 19290 Fontanar, Guadalajara, Spain.

Contact: Adolfo Galán, agalan@danosa.com

Address and contact information of the LCA practitioner commissioned by the EPD owner: Marcel Gómez Consultoría Ambiental, Barcelona, Spain, info@marcelgomez.com

Description of the organisation: DANOSA is a manufacturer with an extensive range of products aimed at covering different technical requirements for building, such as water tightness, heat and acoustic insulation, energy saving, and fire safety.

In addition, evaluating the sustainable use of resources and the environmental impact of the building, form part of the criteria that drive new product development and the design of new construction systems, whether for new builds or restoration.

With over 60 experience years in the sector across 5 continents, DANOSA has a range of renowned European bodies technically guarantee and certify DANOSA products and systems using the European Harmonized Standards (CE mark) and the European Technical Assessment (ETA), complying with the accepted quality standards throughout the European Union, providing peace of mind and assurance to all construction agents.

Product-related or management system-related certifications:

It holds the following certifications: ISO 14001:2015 nº ES144052-1 and ISO 9001:2015 nº ES139363-1.

PRODUCT INFORMATION

Product name: IMPACTODAN

Representative product: IMPACTODAN 5 (50x2)

Product identification: IMPACTODAN 5 (50x2), IMPACTODAN 5 (1x15), IMPACTODAN 10 (25x2), CONFORDAN ECO, and CONFORDAN BT.

Visual representation of the product:



UN CPC code: 36330 – Plates, sheets, film, foil and strip, of plastics

Product description:

IMPACTODAN

Flexible closed-cell chemically cross-linked polyethylene sheet providing an improvement in impact sound insulation ΔL_n of 20–21 dB, determined in accordance with EN 140-8 and EN 717-2. The dynamic stiffness of the product ranges from <95 to 65 MN/m³, measured according to EN 29052-1, and the compressive stress at 25% deformation is >23 ± 2 kPa, in accordance with UNE EN ISO 3386-1. The product complies with impact sound insulation requirements with $L_{nT,w} < 65$ dB and airborne sound insulation $D_{nT} > 50$ dBA for IMPACTODAN® 5, and $D_{nT} > 55$ dBA for IMPACTODAN® 10.

CONFORDAN

Flexible closed-cell chemically cross-linked polyethylene sheet providing an improvement in impact sound insulation ΔL_n of 17–20 dB, determined in accordance with EN 140-8 and EN 717-2. The dynamic stiffness ranges from <110 to 60 MN/m³, measured according to EN 29052-1, and the compressive stress at 25% deformation is >30–23 kPa, in accordance with UNE EN ISO 3386-1. The product is compatible with underfloor heating systems and allows for an economical, easy, and efficient installation.

The following table provides an overview of the products included in the scope of the EPD. s

Product specification	IMPACTODAN 5 (50x2)	IMPACTODAN 5 (1x15)	IMPACTODAN 10 (25x2)	CONFORDAN ECO	CONFORDAN BT
Sheet thickness (mm)	5	5	10	2,5	3
Length (cm)	5000	1500	2500	2500	2500
Width (cm)	200	100	200	100	106
Surface area (m ²)	100	15	50	25	26,5
Surface density (kg/m ²)	0,125	0,125	0,25	0,125	0,12

Name and location of production site: Polígono Industrial Sector 9, 19290 Fontanar, Guadalajara, Spain.

CONTENT DECLARATION

- The mass (weight) of one unit of a product, as per functional unit:
- The weight per functional unit, is 0,125 kg
- The weight of products within the declared range varies between 0,12 kg and 0,25 kg, depending on product specifications.
- Content of the product in the form of a list of materials and substances, and their mass:

Product content	Mass, kg	Post-consumer recycled material, mass-% of product	Biogenic material, mass-% of product
Polyethylene	1,02E-01 (8,22E-02 / 2,05E-01)	0	0
Blowing agent	3,75E-04 (4,20E-04 / 7,50E-04)	0	0
Crosslinking agent	2,21E-02 (1,82E-02 / 4,43E-02)	0	0
Others	2,50E-04 (1,92E-02 / 5,00E-04)	0	0
TOTAL	1,25E-01 (1,20E-01/2,50E-01)	0	0

- The mass and the content of distribution and/or consumer packaging:

Packaging materials	Mass, kg	Mass-% (versus the product)	Biogenic material, kg C/product or functional unit
Pallet	1,29E-02 (1,67E-02/2,65E-02)	10 (14/ 11)	6,47E-03 (8,33E-03/1,33E-02)
Film	1,72E-03 (2,07E-02/3,79E-03)	1 (17 / 2)	0
TOTAL	1,47E-02 (3,73E-02/ 3,03E-02)	12 (31 / 12)	6,47E-03 (8,33E-03/ 1,33E-02)

1 kg biogenic carbon in the product/packaging is equivalent to the uptake of 44/12 kg of CO₂.

- Information on the environmental and hazardous/toxic properties of a substances contained in the product:
The product does not contain any substances during its life cycle that are included in the "Candidate List of Substances of Very High Concern for Authorization (SVHC)" in a concentration exceeding 0,1% by weight of the product.

LCA INFORMATION

Functional unit: 1 m² of acoustic membrane installed for 50 years and with unclassified sound absorption.

Conversion factor to mass:

Weight of the representative product is 0,125 kg/m² (5 mm thickness).

The products covered in this EPD have a thickness ranging from 5 mm (0,12 kg/m²) to 10 mm (0,25 kg/m²).

Product	IMPACTODAN 5 (50x2)	IMPACTODAN 5 (1x15)	IMPACTODAN 10 (2x25)	CONFORDAN ECO	CONFORDAN BT
Weight kg/m ²	0,125	0,125	0,25	0,125	0,12

Reference service life: 50 years

Time representativeness: 2024 year

Geographical scope: Global

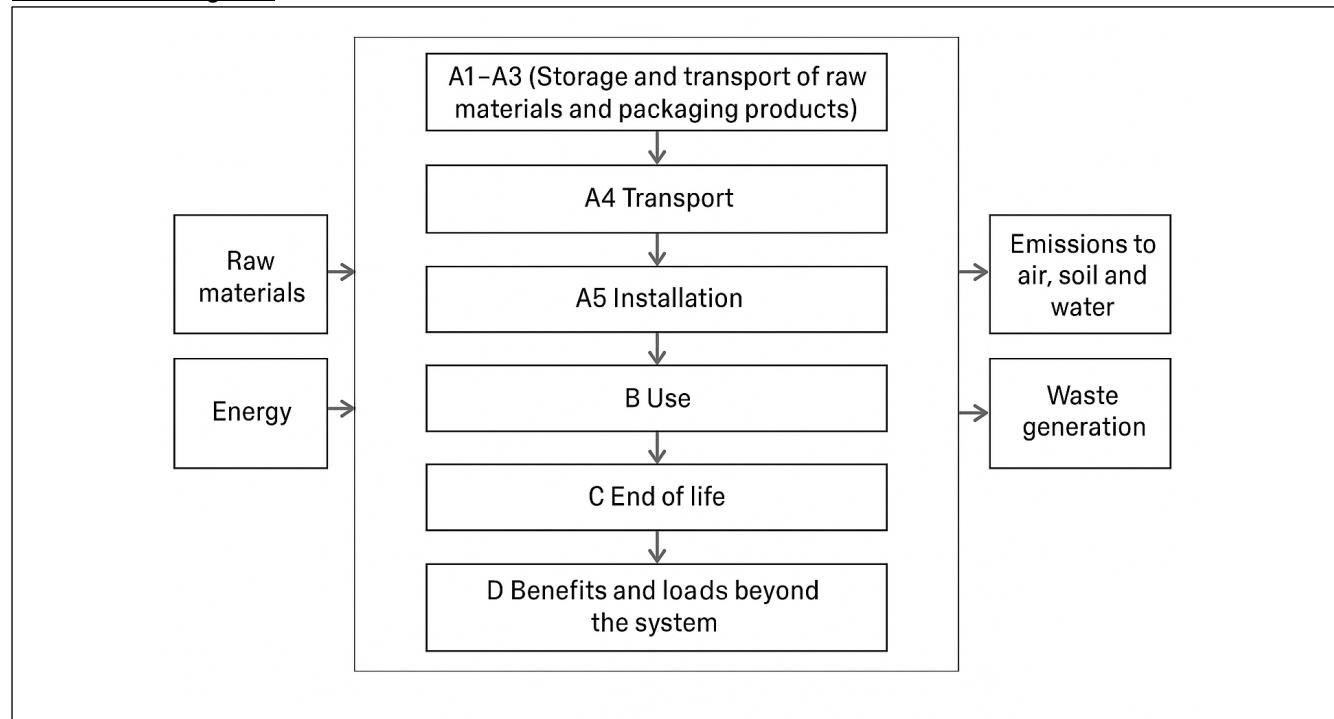
Database and LCA software used: Software SimaPro 10.2.0.2 and Database Ecoinvent 3.11.
The impact assessment models used are those specified in EN 15804:2012 + A2:2019/AC:2021.

Description of system boundaries:

The EPD® presented is structured according to the life cycle stages established by the reference standard PCR: Construction Products, based on the EN 15804 standard. This EPD® covers the cradle-to-grave approach with module D.

Excluded life cycle stages: Every lifecycle stages were considered.

Process flow diagram:



A1 - A3 Manufacturing stage

The manufacturing stage consists of the material supply stage (A1), transport (A2), and manufacturing (A3).

A1 - Material and components Supply

This module considers the extraction and processing of raw materials and energy produced prior to the manufacturing process under study.

A2 - Transport

This module includes an analysis of the transportation of raw materials from suppliers to the production plant located in Guadalajara. The distances and types of trucks used for each material have been specified.

A3 - Manufacturing

This module includes the consumption of energy and packaging materials used during the manufacturing process. At the same time, it analyses on-site emissions not originating from fossil fuel combustion (non-existent), as well as the transportation and management of waste generated in the factory.

For the modelling of the specific electricity mix used at the DANOSA GROUP, S.A. production plant in Fontanar (Guadalajara), electricity consumption at low voltage has been considered, originating from two sources: self-consumption from the on-site photovoltaic installation and supply from the electricity provider CEPSA GAS Y ELECTRICIDAD, S.A.U. The latter certifies a share of the supplied energy through Guarantees of Origin (100% solar thermal). The electricity mix results in total emissions of 0,324 kg CO₂ eq/kWh.

ELECTRICAL MIX IMPACTODAN

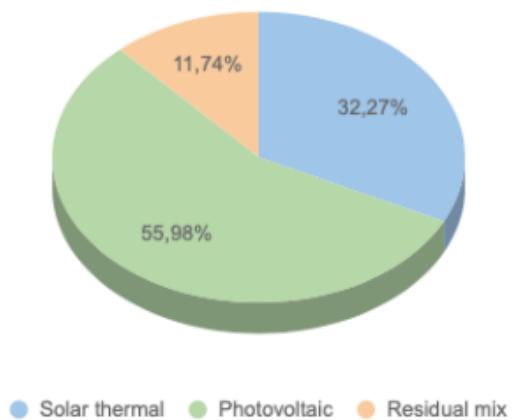


Figure - 2024 Electrical Mix – DANOSA.

A4 - Distribution stage

The transportation stage includes the transport of the finished product from gate to point of sale.

Table. Specifications for distribution scenario

Parameters	Unit (expressed per FU)	
	National distribution	International distribution
Fuel type and consumption of vehicle or vehicle type used for transport	<ul style="list-style-type: none"> Lorry 16-32 ton EURO 6 Diesel consumption 2,1-10-2 kg/tkm 	<ul style="list-style-type: none"> Lorry 16-32 ton EURO 6 Diesel consumption 2,1-10-2 kg/tkm Ship
Product distribution	<ul style="list-style-type: none"> 250 km by truck 	<ul style="list-style-type: none"> 257 km by truck 957 km by ship
Capacity utilisation (including empty returns)	<ul style="list-style-type: none"> % Assumed on Ecoinvent 	
Weight of transported products (including packaging)	<ul style="list-style-type: none"> 0,125 (0,14) kg/m² 	
Volume capacity utilisation factor	<ul style="list-style-type: none"> 1 	

A5 - Installation stage

This stage considers the installation of the product, transportation, and final disposal of the packaging waste. No installation losses have been considered. Because the installation is manual, it is considered that there is no significant consumption of auxiliary products or energy. Due to the limited control over the final disposal of the packaging and its minimal contribution to the overall impact, this is considered a worst-case scenario, so in this case, the packaging is sent to a landfill.

The considered scenario is defined by the following parameters:

Scenario information	Unit/description
Ancillary materials required in the installation	<ul style="list-style-type: none"> Self-adhesive strip: 0,02 kg/m². The transport of the self-adhesive tape has not been considered, as it is an auxiliary installation element supplied by the installer.
Outflow of materials (specified by type) resulting from on-site waste processing	<ul style="list-style-type: none"> Product installation losses: 0%. Waste arising from the packaging is sent to landfill, although some of these materials are recyclable and/or reusable. Regarding the transport of the generated waste, a distance of 80 km to the landfill has been considered.
Quantitative description of the type of energy used and electricity consumption during the installation process	<ul style="list-style-type: none"> No energy is used during installation.

B1 - B7 Use stage

B1 – Use

In this case, due to the product's characteristics, there is no impact during the use phase, so a value of zero (0) was considered for the analysis. The useful life is considered of 50 years.

B2 – Maintenance

No maintenance is required during the 50-year service life of the product.

B3 – Repair

No repairs are required during the 50-year service life of the product.

B4 - Replacement

No replacement is required during the 50-year service life of the product.

B5 - Refurbishment

No refurbishment is required during the 50-year service life of the product.

B6 - Operational energy use

No operational energy use is required during the 50-year service life of the product.

B7 - Operational water use

No water consumption is required during the 50-year service life of the product.

C1 - De-installation stage

C1 De-installation from point of use

To dismantle the cross-linked polyethylene sheets once installed, manual methods are used that do not require energy or water consumption.

C2 - C4 End of life stage

This stage includes phases C2 to C4: C2– Transport, C3–Waste processing, and C4–Disposal.

C2 – Transport

For end-of-life product transport, a distance of 80 km was considered for waste destined for landfill, since the exact location to the waste management facility was not available, and the transport is carried out using a medium-sized truck. For raw materials, transport is model using a medium-sized truck (16-32 tons) Euro 5.

C3 - Waste processing

It is considered that the system's waste is not processed prior to disposal.

C4 – Disposal

The product is sent 100% to landfill.

D – Recovery

Module D reflects the environmental benefits resulting from the reuse, recovery, or recycling of materials that make up the acoustic membranes at the end of their life cycle, which would be incorporated into the life cycle of a new product as secondary raw materials. Module D has been considered in the present study; however, since no treatment has been carried out to recover materials from the membranes, the results are zero.

More information:

- <https://www.danosa.com/es-es/>
- Technical Support for the Implementation of the EPD: Danosa.
- The principle of modularity has been followed, as well as the principle that "the polluter pays."
- Cut-off Rules: At least 95% of the consumption of raw materials and energy per module and at least 99% for the total life cycle is included.
- Allocation Procedure: If necessary, an allocation based on physical criteria has been used.
- Based on the system boundaries defined in the reference standard: PCR Construction Products, the following processes have not been considered:
 - The manufacturing of capital goods with an expected service life of over three years, buildings, and other capital goods.
 - Maintenance activities of the production plant.
 - Transportation performed by workers on the home-to-factory-home journey.

- Long-term emissions.
- Paper and ink used in the packaging label.
- Consumption of materials and energy produced during the demolition of the building.

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

	Product stage		Distribution/installation stage		Use stage							End-of-life stage				Beyond product life cycle
	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
Module	A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4
Modules declared	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Geography	GLO	GLO	ES	GLO	GLO	GLO	GLO	GLO	GLO	GLO	GLO	GLO	GLO	GLO	GLO	GLO
Share of primary data	8% GWP-GHG		-	-	-	-	-	-	-	-	-	-	-	-	-	-
Variation – products	(-6% / 101%)		-	-	-	-	-	-	-	-	-	-	-	-	-	-
Variation – sites	0%		-	-	-	-	-	-	-	-	-	-	-	-	-	-
																D
																X
																GLO
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*This is based on the percentage difference between the GWP-GHG of the reference product and the minimum (-6%) and maximum (101%) values within the declared product range.

Data quality assessment:

The inventory data have been obtained from the site's own data, provided by Danosa staff and from the Ecoinvent 3.11 database, included in the internationally recognized SimaPro 10.2.0.2 software.

The data quality requirements of ISO 14025 and the reference PCR have been considering in the development of this study.

The specific data are based on average data from the year 2024 and are therefore less than one year old, also the data used on the manufacturing process have been provided by the manufacturer itself and are therefore representative for the region. On the other hand, generic data from the Ecoinvent 3.11 database have been used.

The specific data reflect the physical reality of the declared product, as they have been provided by the manufacturer itself.

The data quality was assessed based on three dimensions: temporal, technological, and geographical. Overall, the data quality is considered *average*.

As required by section 4.6.5 of the PCR, the following table provides a summary of the data quality assessment (DQA) for the datasets that contribute to at least 80% of the results for each of the declared environmental impact indicators. For most indicators, the A1–A3 modules account for over 80% of the total impacts.

Data Quality Aspect	Details / Description
Data Quality Scheme	EN 15804:2012+A2:2019/AC:2021, Annex E, Table E.1
Use of poor/very poor data	The datasets used to model the transport show limited geographical representativeness. In particular, the dataset sea transport is based on global average data, which may not fully reflect the regional context of the study.
Use of Fair data with more than 30 % of a core impact	No fair data used.
Data Collection period for raw data	1/1/2024–31/12/2024
Geography	The product is manufactured in Spain and marketed globally. Installation and use phases may occur in various countries, depending on the final destination markets.
Technology	The specific data reflect the physical reality of the declared product, as they have been provided by the manufacturer itself.
Geography and technology	This EPD covers 5 variants of the same product. The calculated impacts for the GHG-GWP indicator within the A1–A3 life cycle stages exhibit a variation of 101% among all product variants included in this EPD. The A1–A3 life cycle stages contribute approximately 90% of the total GWP-GHG impact associated with the product. No average data was used.
LCI/LCA database	Ecoinvent v3.11
EPD used	None

The data quality information presented in this EPD has been prepared and reported in accordance with the requirements set forth in EN 15941:2024 and complies with the data quality criteria specified in EN 15804:2012+A2:2019

As requested by PCR, the following table provides information on the quality of the data used for processes contributing more than 10% to the overall GWP-GHG indicator value for the product considered.

Process	Source type	Source	Reference year	Data category	Share of primary data, of GWP-GHG results for A1-A3
Generation of electricity used in manufacturing of product	CNMC / Database	Ecoinvent v3.11	2024	Primary data	7,19% (7,53%/7,15%)
Transport to manufacturing site	Database	Ecoinvent v3.11	2024	Primary data	0,49% (0,38%/0,93%)
Total share of primary data, of GWP-GHG results for A1-A3					7,7% (7,9%/8,1%)

***The share of primary data is calculated based on GWP-GHG results. It is a simplified indicator for data quality that supports the use of more primary data, to increase the representativeness of and comparability between EPDs. Note that the indicator does not capture all relevant aspects of data quality and is not comparable across product categories*

ENVIRONMENTAL PERFORMANCE

LCA results of the product - main environmental performance results

According to EN 15804 reference package based on EF 3.1 version.

The use of results from modules A1-A3 without considering module C is not recommended, as stated in PCR 2019:14 version 2.0.1, section 2.2.2.

The following presents the results of the potential environmental impacts of the product under study.

The estimated impact results are only relative statements, which do not indicate threshold values, safety margins, or risks, nor do they describe the endpoints of the impact categories, in compliance with the requirements of GPI version 5.0.1 and the applicable PCR.

Mandatory impact category indicators according to EN 15804

Indicator	Unit	Results per functional unit															
		A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D	
GWP-total	kg CO ₂ eq.	6,05 E-01	5,48 E-03	2,86 E-01	0,00 E+00	1,78 E-03	0,00 E+00	4,60 E-04	0,00 E+00								
GWP-fossil	kg CO ₂ eq.	6,28 E-01	5,48 E-03	2,61 E-01	0,00 E+00	1,78 E-03	0,00 E+00	4,60 E-04	0,00 E+00								
GWP-biogenic	kg CO ₂ eq.	-	2,31 E-02	1,75 E-07	2,45 E-02	0,00 E+00	5,59 E-08	0,00 E+00	7,95 E-08	0,00 E+00							
GWP-luluc	kg CO ₂ eq.	4,09 E-04	9,42 E-08	2,79 E-05	0,00 E+00	2,81 E-08	0,00 E+00	2,66 E-08	0,00 E+00								
ODP	kg CFC 11 eq.	2,18 E-08	1,21 E-10	2,87 E-08	0,00 E+00	4,04 E-11	0,00 E+00	7,05 E-12	0,00 E+00								
AP	mol H ⁺ eq.	2,33 E-03	1,90 E-05	2,54 E-04	0,00 E+00	4,59 E-06	0,00 E+00	4,18 E-06	0,00 E+00								
EP-freshwater	kg P eq.	1,54 E-05	3,46 E-09	1,43 E-06	0,00 E+00	1,10 E-09	0,00 E+00	4,41 E-10	0,00 E+00								
EP-marine	kg N eq.	1,28 E-03	4,58 E-06	1,02 E-04	0,00 E+00	1,75 E-06	0,00 E+00	1,97 E-06	0,00 E+00								
EP-terrestrial	mol N eq.	4,35 E-03	5,07 E-05	9,43 E-04	0,00 E+00	1,91 E-05	0,00 E+00	2,16 E-05	0,00 E+00								
POCP	kg NMVOC eq.	2,69 E-03	2,18 E-05	4,55 E-04	0,00 E+00	7,60 E-06	0,00 E+00	6,45 E-06	0,00 E+00								
ADP-minerals& metals*	kg Sb eq.	1,63 E-06	1,36 E-10	1,18 E-08	0,00 E+00	4,64 E-11	0,00 E+00	1,60 E-11	0,00 E+00								
ADP-fossil*	MJ	2,75 E+00	4,94 E-04	1,74 E-01	0,00 E+00	1,57 E-04	0,00 E+00	6,74 E-05	0,00 E+00								
WDP*	m ³	3,84 E-01	2,38 E-05	2,26 E-02	0,00 E+00	7,73 E-06	0,00 E+00	4,51 E-06	0,00 E+00								

Acronyms	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
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* Disclaimer: The 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.

Additional mandatory and voluntary impact category indicators

Results per functional unit																
Indicator	Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
GWP-GHG ¹	kg CO ₂ eq.	6,29 E-01	5,48 E-03	2,62 E-01	0,00 E+00	0,0 0E+00	1,78E-03	0,00 E+00	4,60 E-04	0,00 E+00						

Resource use indicators

Results per functional unit																
Indicator	Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
PERE	MJ	6,21 E-01	1,78 E-04	2,53 E-01	0,00 E+00	5,90 E-05	0,00 E+00	1,39 E-04	0,00 E+00							
PERM	MJ	2,00 E-01	0,00 E+00	2,00 E-01	0,00 E+00											
PERT	MJ	8,21 E-01	1,78 E-04	5,37 E-02	0,00 E+00	5,90 E-05	0,00 E+00	1,39 E-04	0,00 E+00							
PENRE	MJ	2,79 E+00	5,11 E-04	2,37 E-01	0,00 E+00	1,62 E-04	0,00 E+00	7,00 E-05	0,00 E+00							
PENRM	MJ	5,66 E-02	0,00 E+00	5,66 E-02	0,00 E+00											
PENRT	MJ	2,84 E+00	5,11 E-04	1,80 E-01	0,00 E+00	1,62 E-04	0,00 E+00	7,00 E-05	0,00 E+00							
SM	kg	0,00 E+00														
RSF	MJ	0,00 E+00														
NRSF	MJ	0,00 E+00														
FW	m ³	6,24 E-03	1,40 E-06	7,00 E-03	0,00 E+00	4,58 E-07	0,00 E+00	2,13 E-07	0,00 E+00							

¹ This 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.

Acronyms	PERE = Use of renewable primary energy excluding renewable primary energy resources used as raw materials; PERM = Use of renewable primary energy resources used as raw materials; PERT = Total use of renewable primary energy resources; PENRE = Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials; PENRM = Use of non-renewable primary energy resources used as raw materials; PENRT = Total use of non-renewable primary energy resources; SM = Use of secondary material; RSF = Use of renewable secondary fuels; NRSF = Use of non-renewable secondary fuels; FW = Use of net fresh water															
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Waste indicators

Results per functional unit																
Indicator	Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Hazardous waste disposed	kg	2,92 E-04	4,73 E-07	3,46 E-05	0,00 E+00	1,57 E-07	0,00 E+00	4,11 E-08	0,00 E+00							
Non-hazardous waste disposed	kg	5,60 E-03	2,36 E-06	1,74 E+00	0,00 E+00	7,95 E-07	0,00 E+00	1,45 E-01	0,00 E+00							
Radioactive waste disposed	kg	1,76 E-05	4,27 E-09	1,49 E-06	0,00 E+00	1,43 E-09	0,00 E+00	4,30 E-10	0,00 E+00							

Output flow indicators

Results per functional unit																
Indicator	Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Components for re-use	kg	0,00 E+00														
Material for recycling	kg	3,65 E-03	0,00 E+00													
Materials for energy recovery	kg	0,00 E+00														
Exported energy, electricity	MJ	0,00 E+00														
Exported energy, thermal	MJ	0,00 E+00														

Additional LCA results (other environmental performance results) of the product

Information on biogenic carbon content

Results per functional unit		
Biogenic carbon content	Unit	Quantity
Biogenic carbon content in the product.	kg C	0,00E+00
Biogenic carbon content in the packaging.	kg C	6,47E-03

Note: 1 kg of biogenic carbon is equivalent to 44/12 kg of CO2.

ADDITIONAL ENVIRONMENTAL INFORMATION

Product – to – product variability

LCA result of one functional unit product (A-C)	Unit	CONFORDAN BT Min	IMPACTODAN 5 (50x2) Representative	IMPACTODAN 10 (25x2) Max
GWP- total	kg CO2 eq.	-30%	8,99E-01	101%
GWP-biogenic	kg CO2 eq.	-30%	8,97E-01	101%
GWP-Iuluc	kg CO2 eq.	14%	1,33E-03	100%
GWP- fossil	kg CO2 eq.	-13%	4,37E-04	95%
ODP	kg CFC 11 eq.	-6%	5,07E-08	46%
AP	mol H+ eq.	-20%	2,61E-03	100%
EP-freshwater	kg P eq.	-17%	1,68E-05	92%
EP- marine	kg N eq.	-35%	1,39E-03	100%
EP-terrestrial	mol N eq.	-23%	5,38E-03	101%
POCP	kg NMVOC eq.	-15%	3,18E-03	99%
ADP- minerals&metals*	kg Sb eq.	-38%	1,64E-06	100%
ADP-fossil*	kg CO2 eq.	-13%	2,92E+00	95%
WDP*	kg CO2 eq.	-10%	4,06E-01	92%
GWP-GHG	kg CO2 eq.	-8%	6,29E-01	101%

ABBREVIATIONS

Abbreviation	Definition
General Abbreviations	
EN	European Norm (Standard)
EPD	Environmental Product Declaration
EF	Environmental Footprint
ES	Spain
GPI	General Programme Instructions
ISO	International Organization for Standardization
LCA	Life Cycle Assessment
PCR	Product Category Rules
c-PCR	Complementary Product Category Rules
CEN	European Committee for Standardization
CNMC	National Commission of Markets and Competition
CLC	Co-location centre
CPC	Central product classification
GHS	Globally harmonized system of classification and labelling of chemicals
GLO	Global
GRI	Global Reporting Initiative
Environmental Impact Indicators (EN 15804)	
GHG	Greenhouse gas
GWP	Global Warming Potential (kg CO ₂ eq.)
GWP-fossil	Global Warming Potential from fossil sources (kg CO ₂ eq.)
GWP-biogenic	Global Warming Potential from biogenic sources (kg CO ₂ eq.)
GWP-luluc	Global Warming Potential from land use and land use change (kg CO ₂ eq.)
GWP-total	Total Global Warming Potential (kg CO ₂ eq.)
GWP-GHG	Global Warming Potential for greenhouse gases (kg CO ₂ eq.)
ODP	Ozone Depletion Potential (kg CFC-11 eq.)
AP	Acidification Potential (mol H ⁺ eq.)
EP	Eutrophication Potential
EP-freshwater	Freshwater eutrophication potential (kg P eq.)
EP-marine	Marine eutrophication potential (kg N eq.)
EP-terrestrial	Terrestrial eutrophication potential (mol N eq.)
POCP	Photochemical Ozone Creation Potential (kg NMVOC eq.)
ADP	Abiotic Depletion Potential
ADP-minerals&metals	Abiotic depletion potential for non-fossil resources (kg Sb eq.)
ADP-fossil	Abiotic depletion potential for fossil resources (MJ)
WDP	Water Deprivation Potential (m ³)
Resource Use Indicators	
PERE	Use of renewable primary energy excluding renewable primary energy resources used as raw materials (MJ)
PERM	Use of renewable primary energy resources used as raw materials (MJ)
PERT	Total use of renewable primary energy resources (MJ)
PENRE	Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials (MJ)
PENRM	Use of non-renewable primary energy resources used as raw materials (MJ)
PENRT	Total use of non-renewable primary energy resources (MJ)
SM	Use of secondary material (kg)
RSF	Use of renewable secondary fuels (MJ)
NRSF	Use of non-renewable secondary fuels (MJ)
FW	Use of net fresh water (m ³)
Waste Indicators	
HW	Hazardous Waste (disposed) (kg)

NHW	Non-Hazardous Waste (disposed) (kg)
RW	Radioactive Waste (disposed) (kg)
Output Flow Indicators	
CFR	Components for Reuse (kg)
MR	Material for Recycling (kg)
MER	Materials for Energy Recovery (kg)
EEE	Exported Energy, Electricity (MJ)
EET	Exported Energy, Thermal (MJ)
Lifecycle Stages / Modules	
A1	Raw material supply
A2	Transport
A3	Manufacturing
A4	Transport to site
A5	Construction/Installation
B1	Use
B2	Maintenance
B3	Repair
B4	Replacement
B5	Refurbishment
B6	Operational energy use
B7	Operational water use
C1	Deconstruction/Demolition
C2	Transport to waste processing
C3	Waste processing
C4	Disposal
D	Reuse-Recovery-Recycling potential
Other Relevant Terms	
SVHC	Substances of Very High Concern
EC No.	European Community Number
CAS No.	Chemical Abstracts Service Number
MJ	Megajoule
kg	Kilogram
m ³	Cubic Meter
NMVOC	Non-Methane Volatile Organic Compounds
Sb eq.	Antimony Equivalents
P eq.	Phosphorus Equivalents
N eq.	Nitrogen Equivalents
CFC-11 eq.	Chlorofluorocarbon-11 Equivalents
CO ₂ eq.	Carbon Dioxide Equivalents
kg C	Kilograms of Carbon
kg CO ₂ eq.	Kilograms of Carbon Dioxide Equivalent
ND	Not Declared

REFERENCES

- General Programme Instruction of the International EPD® System. Version 5.0.1
- ISO 14025:2006 Environmental labels and declarations - Type III Environmental Declarations - Principles and procedures.
- ISO 14040:2006 Environmental management - Life Cycle Assessment-Principles and framework
- ISO 14044:2006 Environmental management - Life Cycle Assessment-Requirements and guidelines.
- PCR 2019:14 Construction products (EN 15804:A2) version 2.0.1.
- c-PCR-014, version 1.0.0 - Acoustical ceiling and wall solutions.
- UN CPC 36330 – Plates, sheets, film, foil and strip, of plastics
- EN 15804:2014+A2:2019/AC:2021. Sustainability of construction works-Environmental Product Declarations-Core rules for the product category of construction products.
- [EPD-IES-0001924:001 \(S-P-01924\) Acoustic membranes IMPACTODAN](#)
- [Membrana acústica Danosa | Aislamiento acústico](#)
- Danosa. Life-Cycle Assessment for IMPACTODAN 5 | IMPACTODAN 10 | CONFORDAN ECO | CONFORDAN BT. 2025. Version 1

VERSION HISTORY

Version 2

Original Version of the EPD: 2020-04-01

Revision Version of the EPD: 2026-01-02

Differences versus the previously published version:

- Three additional product variants have been included.
- Product composition data have been revised.
- All data have been updated to reflect the year 2024.
- Adaptation to new requirements from PCR version 2.0.1.

