Environmental Product Declaration

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

Sound-absorbing panels

of

dBCover Solutions SL

Programme:	The International EPD System, www.environdec.com
Programme operator:	EPD International AB
Type of EPD:	EPD of multiple products, based on worst-case results.
EPD registration number:	EPD-IES- 0032518:001
Version date:	2026-06-15
Validity date:	2031-06-15
	An EPD may be updated or depublished 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
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Product Category Rules (PCR)
CEN EN 15804 is the basic Product Category Rules (PCR)
PCR 2019:14 Construction Products version 2.0.1 **-UN CPC code: 27922 Nonwovens**
PCR review was conducted by: The Technical Committee of the International EPD System. A full list of members is available on www.environdec.com. Review Chair: Rob Rouwette (chair), Noa Meron (co-chair) The review panel may be contacted via support@environdec.com.
c-PCR, if applicable: Acoustical ceiling and wall solutions, 014 (to PCR 2019:14), version1.0.0, valid until 2027-01-28

Independent third-party verification
Independent third-party verification of the claim and data, in accordance with ISO 14025:2006, by: ☒ **Individual EPD verification without a pre-verified LCA/EPD tool** Third-party verification: *Marcel Gómez, Marcel Gómez Consultoría Ambiental S.L.* Approved by: International EPD System
The procedure for tracking data during the validity of the EPD involves an independent verifier: ☐ Yes ☒ No

The owner of the EPD has sole ownership, responsibility, and obligation over the EPD.

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

INFORMATION ABOUT THE OWNER OF THE EPD

EPD Owner:
dBCover Solutions SL
Calle de benelux, 91 - aptdo 26, Elda, 03600, alicante

Contact:
Manuel Taborga
e-mail: m.taborga@dbcover.com

Address and contact of the EPD maker hired by the EPD owner:
The life cycle analysis and this EPD have been carried out by Patricia Boquera Tovar, from AIDIMME.
pboquera@aidimme.es
Process Management and Sustainability
METALWORKING, FURNITURE, WOOD, PACKAGING AND RELATED TECHNOLOGICAL INSTITUTE
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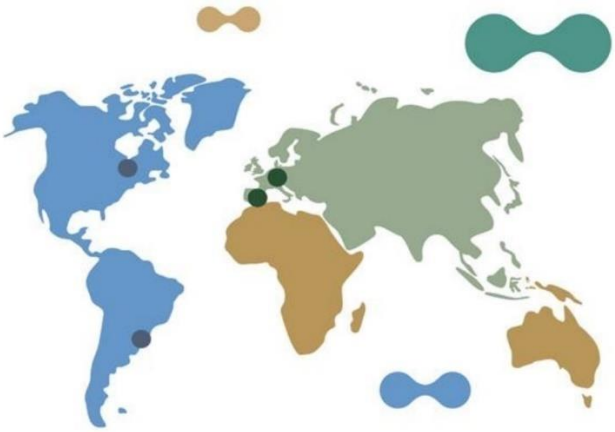
Company Description:
Zahonero Group, founded in 1968 and headquartered in Elda (Alicante, Spain), is a global industrial group specialized in the development and manufacture of technical foams. It currently has 9 of its own production units distributed in Spain, Brazil, Mexico, Canada, India, Indonesia, China and Vietnam, as well as commercial offices in Portugal and the USA. With more than 500 employees and a presence in more than 30 countries, the group serves more than 3,000 international customers, providing comfort solutions in sectors such as footwear, foot care, sporting goods and sound insulation.



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Within the group, the division specialising in architectural acoustics is dBcover Solutions S.L., a company also based in Elda, which operates under the dBcover® trademark. This division was born from the combination of chemical engineering and experience in acoustics to design advanced acoustic insulation and conditioning solutions, focused on the sustainable building and construction sector.

dBcover's Mission and Approach

dBcover is present in more than 23 countries with more than 500 customers. At dBcover® we believe that innovation is the key to creating value in the future. Our multidisciplinary team of experts in acoustics and engineering works on the development of technical solutions to solve problems of:

- Airborne noise
- Impact noise
- Reverb
- Sound absorption (owning the Harmonium brand)

We offer specific solutions adapted to each project, whether in the architectural design phase or for the rehabilitation of existing spaces. We work in more than 23 countries and collaborate with renowned firms in the construction sector, ranging from hotels and educational centers to housing, auditoriums and industries.

At HARMONIUM, we aim to exceed expectations by providing excellent customer service and providing high-performance acoustic solutions integrating recycled materials and design aspects. We are dedicated to improve the listening experience in every space,.

Product Certifications:

Harmonium has the Product Passport Sustainability (number: 295-1-2400145.0 obtained in July 2025), a certificate based on documentary review, relating to the product's contribution to certain sustainability criteria included in the following systems in the construction sector:

System	Result
BREEAM DE New Construction 2018	Can contribute to 4 points
BNB Version 2015	Leads to a positive contribution in 5 criteria
DGNB Version 2018	Leads to a positive contribution in 5 criteria
LEED v4.1	Can contribute to 2 to 4 points
QNG	Can contribute to QNG premium

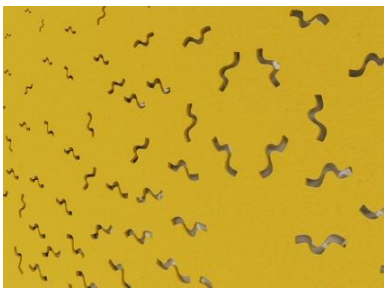
In addition, the panel supplier, Burgeree New Tech Jiangsu Co., Ltd., is ISO 14001, ISO 9001 certified and has carried out emission tests on the panel for 37 volatile and total organic compounds in accordance with ISO 160000-3:2011, ISO 160000-6:2011 and ISO 160000-11:2006 standards, "obtaining not detected" in all of them (Intertek report ref: 211215001SHF-001).

PRODUCT INFORMATION

Product Name: Harmonium
Harmonium is organised in several collections according the inspirational of the designs. The list of collections and products is:

Pulse Singular Arch Flow Freedom Fragments Geometric Resonance Hexagon Vault	**Harmony** Tribeca Disruptive Moon Phases Maze Steel Belly System Petal Island S Petal Island L Voronoi	**HOP - Help Our Planet** Antrophocene Waves Jetlag Equator Sun Sunrise
Chilwe Leaf Corner Roots Hills Cur Laurel Moon Island S Moon Island L Pebble Island Montsera Island S Montsera Island L Leaf Rounded	**Essential** Plinth Morph Soft Edge Morph Exzentric Cube Morph Soft Edge Pendant Light Morph Soft Edge Pendant Luxineco System Aegis Morph Room Divider Berlin	**Bauhaus By Harmonium** The Bau Legacy Lines in Motion Living Geometry Abstraction Game Geometric Harmony

Examples of designs for Harmonium panels. To see the full variety: https://www.harmonium.es/


Pulse: Fragments


Chilwe: Curl


Harmony: Moon phases


Essential: Cube

Help Our Planet: Sunrise


Bauhaus: Geometric Harmony

UN CPC code: 27922 Nonwovens

Product Description:
This Environmental Product Declaration, EPD, covers the Harmonium family of acoustic panels. Harmonium is made of non-woven fabric panels made of PET fibres with a minimum post-consume recycled content of 75%.[1] Its final manufacturing process consists of a cutting process that allows the desired design to be obtained.

The Harmonium product stands out for its variability in design, creating a diversity of styles that adapt to different spaces to offer personalized projects with the best acoustic and aesthetic conditions, where each collection starts from a focus of inspiration, transforming the architecture and interior design scene. For this purpose, Harmonium offers various installation options, such as wall or ceiling panels (glued) or elements hung from ceilings or room dividers.

It is the LCA of the same base product with variations in the designs, resulting in several collections (according the inspirational theme) and product denominations depending on ornamental issues such drawing patterns made using small grooves or perforations.The EPD has been selected multiproduct because of this fact, and it is based on the worst scenario, (which is also the most representative) by considering the basic model which has no ornamental perforations, because the raw material impact is the same for all them, but during the distribution stage we consider the worst weigth scenario, in case there is a, sligth difference in final weigth due to those aesthetical effects.

The main technical properties of Harmonium are presented below, although the complete technical data sheets of the products can be consulted on the website https://www.harmonium.es/

Product	Thickness (mm)	Density (kg/m3)	Weight per UF (Kg/m^2)	Sound absorption
Harmonium	12 mm	200	2,4	0.9 αW - 0.8 NRC (0.9 αW is correlated with ISO EN 11654 class A)

Name and location of the production site:
dBCover Solutions SL
Calle de benelux, 91 - aptdo 26, Elda, 03600, Spain.

[1] SCS Recycled Content Certified: SCR-RC-10256

CONTENT DECLARATION

The following values refer to the functional unit (1 m^2):

Product Components	Weight, kg	Post-consumer recycled material kg, %	Material of renewable origin, %	Biogenic Kg C
TNT PET fiber panel	2,400	75%	0	0
TOTAL	2,400	75%	0	0

Packaging Materials	Weight, kg	Weight-% (with respect to product)	Biogenic Kg C
Wood	0,145	6,05%	0,073
Cardboard, paper	0,172	7,19%	0,076
Plastics (polyolefins)	0,022	0,92%	0
TOTAL	0,340	14,15%	0,148

From DB-COVER SOLUTIONS S.L., we inform that, after analysing the composition of Harmonium products, they do not contain substances classified as SVHC ("Substances of Very High Concern"), published by the European Chemicals Agency ECHA and listed in Annex XVII of the REACH regulation.

LCA INFORMATION

Functional unit: 1 m^2 of Harmonium acoustic base, with 12mm thickness, class A, installed on walls, ceilings, hanging from ceilings or as a divider, with a use life of 50 years.

The conversion factor to mass of the functional unit is 2.4 kg/m^2

Reference service time: Its default use time is 50 years, which corresponds to the building's use time.

Temporal representativeness: the direct data obtained from the company for production and distribution correspond to 2024.

Geographical scope: the production of the raw material is carried out in China (A1-A2), while the final production is carried out in Spain (A3) and the sales market is mainly Europe (A4-A5, B, C1-C4).

LCA databases and software used: Secondary data were obtained from Ecoinvent 3.11, as well as inputs for the modelling of certain materials that do not exist in this database, for which bibliography referenced in this EPD and technical data sheets or safety data sheets were used. The modelling has been carried out using the SimaPro 10.1.0.2 software and Microsoft Excel. EF 3.1 emission factors are used.

Description of the system limits: The system boundaries of this EPD are Cradle to grave and module D (A + B + C + D).

Allocations and assumptions made:
For 2024, losses during production have been taken into account by estimation, assigning this amount as PET waste to the Harmonium manufacturing process. Likewise, from the records of the use of

processing machinery in 2024, the total electricity consumption for production has been calculated from the total amount of Harmonium manufactured in that year. This has been distributed among the total kg of product manufactured.

In distribution, the average distance has been calculated based on all orders in 2024 and this distance per m^2 of product has been assigned. Distribution includes the transport of auxiliariy materials needed for installation. In the installation module, the company has established the frequency of each type of installation scenario for 2024, and based on these scenarios, the quantities of fastening materials established per m^2 have been assigned.

This study has been carried out to understand the environmental impact including all stages of the life cycle ("from cradle to grave"). In other words, the results reflect the analysis of the phases:

A1-A3 PRODUCT STAGES

A1. Raw materials.
Module A1 considers the phase of obtaining and transforming the raw materials for the system studied. In this module, the obtaining of the main raw material, PET fibre mainly of recycled post-consumer origin (75%) and its forming into panels, has been considered.

A2. Transport of raw materials.
In this module you consider the transportation of PET TNT sheets from the supplier's facility in China.

A3. Production.
The production process consists of the manufacture of panels for acoustic conditioning for both wall and ceiling cladding, using polyester fibreboards, in which the different perimeter and surface machining are carried out to achieve the desired design and acoustic absorption.

The electricity consumed by the cutting table used in the process are considered, calculated based on power and operating hours in 2024. The energy consumption model has been made based on the 100% renewable guarantee of origin certificate of the electricity distributor contracted by the company, and taking the Spanish electricity mix of renewables in 2024, the emission factor resulting from the modelling is 0.0233 kg CO2 eq./kWh. The consumption of machinery oil is also considered.

The manufacture and transport of the necessary packaging elements is included.

There are no emissions. The quantities of waste generated in the process, all of a non-hazardous type, from raw material packaging materials and from the machining operations of the panels are also considered. The transport to the specific manager and the current destination that is a landfill are considered. The production looses are compensated in previous modules A1-A2.

A4-A5 CONSTRUCTION STAGES

A4. Distribution.
Distribution is carried out through an agency, so it is considered that the trucks are shared between several customers and return loaded with other goods, and therefore only the outward distance is calculated. The point of origin is the location of the headquarters of GRUPO ZAHONERO in Elda (production centre), and the point of destination is the distance to each specific postal code/region. By

2024, almost all Harmonium products (>99%) will be distributed in the European market and Switzerland, with a small proportion going to Brazil.

The following table shows the average distribution distance in each means of transport (truck and ship), as well as the corresponding consumption of the Ecoinvent models.

Fuel type and vehicle consumption		Representativeness in the model
Freight truck >32 t, EURO5	0.306 l diesel /km	99.76%
Ship (containers)	0.002517 kg/tkm	0.24%
Average distance		
1391.16 km by truck and 24.35 km by boat		
Usability (include return of unladen transport)		
Ecoinvent charging efficiency values are assumed		
Bulk density of the transported product: Harmonium acoustic panels		
The bulk density of the product is 200.322 kg/m3 (excluding packaging, including auxiliary materials for installation)		
Volume Usability Factor		
1 (default)		

A5. Installation.

Installation is basically a manual process in which 5% of product waste is considered. Depending on the type of installation (wall, ceiling or hanging) the adhesive material used or the metal anchors are considered. The installation scenarios are considered based on the information handled by the company, which implies a degree of uncertainty because they do not know the data for all their sales. Transport of auxiliary materials is included in A4. At this stage, packaging waste is generated, which is supposed to be transported an average of 80 km for recycling or landfilling and 100 for incineration.

<table>
<tr><th>PARAMETER</th><th>VALUE (expressed in functional unit)</th></tr>
<tr><td>Secondary Materials for Installation</td><td>
<table>
<tr><th>Type of installation</th><th>Kg/m² scenario</th><th>% scenario</th><th>Kg/m2 UF</th></tr>
<tr><td>Wall-mounted: acrylic adhesive</td><td>0.45</td><td>67%</td><td>0.299</td></tr>
<tr><td>To ceiling: silicone adhesive</td><td>0.31</td><td>5%</td><td>0.016</td></tr>
<tr><td>Hanging: metal anchor</td><td>0.046</td><td>14%</td><td>0.006</td></tr>
<tr><td>No glue or anchor</td><td>-</td><td>14%</td><td></td></tr>
<tr><td colspan="3">Total</td><td>0.322</td></tr>
</table>
</td></tr>
<tr><td>Consumption of other resources</td><td>None</td></tr>
<tr><td>Type of energy (regional mix) and its consumption during installation</td><td>None</td></tr>
<tr><td>Waste on the construction site, (packaging and installation waste)</td><td>It is estimated that 5% of losses during installation represent 0.135 kg. Destination to landfill.
The packaging is 0.340 kg. Destination according to Eurostat 2022 statistics.* Wood: V=36.1%; R=34.2%, I=29.7%. Cardboard: V=9.6%; R=83.1% and I=7.3%. Plastic: V=0.2%; R=40.7% I=35.0%</td></tr>
<tr><td>Direct emissions to air, soil or water</td><td>None</td></tr>
</table>

B1-B7 STAGES OF USE

During its 50-year life, the product does not require maintenance, repair or replacement. Therefore, it does not generate any impact, as it does not consume water or energy or any other raw material, nor does it generate waste or discharge emissions.

C1-C4 END-OF-LIFE STAGES

C1: Demolition

The dismantling of the panels can be considered negligible in the whole of a demolition of a building, which is basically a manual process and represents a negligible % of the building. The reference energy consumption value of the PCR Table 4 is considered. 1.1 kwh/ton is taken, which implies a consumption of 0.00264kwh/m^2.

C2: Transport to the waste treatment centre.

Fuel type and vehicle consumption	
Goods truck 7.5-16t, EURO 5	0.274 l diesel /km
Distance	
80 km (landfilling)	
Usability (include return of unladen transport)	
Ecoinvent charging efficiency values are assumed	
Bulk density of the transported product: panels and associated installation materials	
The bulk density of the product is 200.144 kg/m3	
Volume Usability Factor	
1 (default)	

C3 and C4: Waste treatment and final discharge.

PET fibre panel: although it is possible to recycle or recover energy, this practice is not recorded as common and it is considered the most conservative scenario that it is landfill.

PARAMETER	VALUE (expressed in functional unit)
Waste collection process specified by type	Selective collection within the demolition process
Type-specified recovery system	It is not considered.
Pour Specified by Type	2,4 + 0,144 kg, 100% landfill
Scenario-Developing Assumptions	The waste from the demolition of the products does not require additional treatment for landfilling, so the C3 module has no associated impact.

D: RECOVERY OF MATERIALS THROUGH RECYCLING

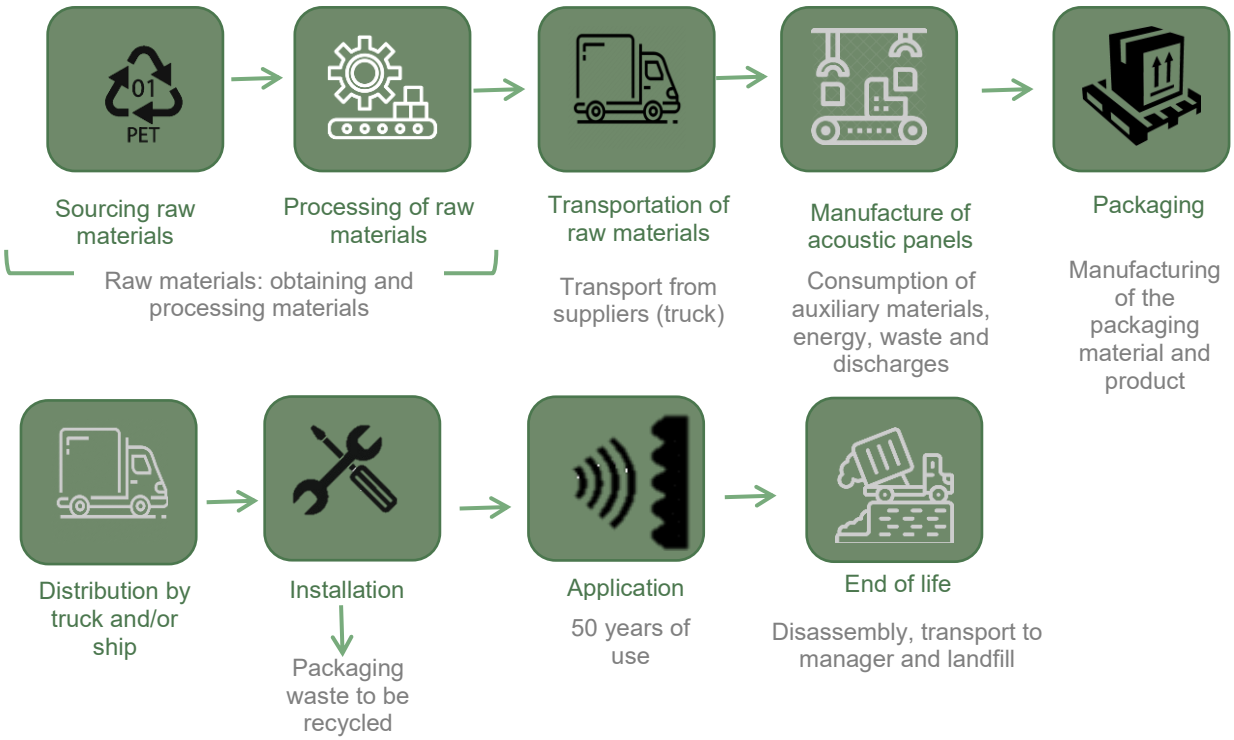
This module considers the impacts of such recycling processes, and subtracts the value of the environmental impact of the recovered material. Given that in this case the precautionary principle is

applied assuming the worst possible scenario, given the uncertainty of the end of life of the product, the final destination of the product is landfill and does not contribute to this module.

Given that a process for the classification and pre-treatment of packaging materials has been included in A5, we can consider that the End of Waste status has been reached and the recycling process and consequent environmental benefit derived for the % that is destined for recycling indicated by Eurostat for each of the fractions of packaging materials managed in the following table is considered. A5 as waste:

Material	Kg to be recycled/m^2
Wood	0.0496
Cardboard	0.1433
Plastic	0.0090

Diagram of the System studied:



Additional Information:

Cut-off rules:

The ICL data includes, in accordance with EN 15804, a minimum of 95% of the total input streams (mass and energy) per module (e.g. A1-A3, A4-A5, B1-B5, B6-B7, C1-C4 and module D). In addition, this PCR applies the extended cut-off rule of the ISO 21930 standard, which establishes at least 95% of the environmental impact per module. Plausibility assessments and expert judgement can be used to demonstrate compliance with these criteria.

Data source:

- Direct data have been mainly used for the modelling of the modules of the production phase: A1, A2 and A3.
    - The composition and description of the production process provided by DB-COVER and data from its supplier regarding the recycled content of the PET fibre (attached certificate) have been used, as well as the EPD corresponding to this raw material. The location of the supplier and means of transport used have also been taken into account.
    - Specific information on the cutting table used in the production process of Harmonium panels at DB-COVER has been collected throughout 2024 (power, processing time and product quantity). Likewise, a periodization of hydraulic oil has been carried out. In the case of waste, it is carried out in a similar way for horizontal waste, with the exception of those that correlate with the products that consume the corresponding raw materials.
    - The electricity consumption for this process has been modelled from your electricity supplier's certificate with a guarantee of origin, i.e. that it is 100% of renewable origin. The corresponding mix for renewable energies has been modelled with the same distribution as the Spanish electricity system. The GWP-GHG emission factor resulting from the electricity modelling is 0.0233 kg CO2 eq./kWh

- For the distribution process (A4), the specific data of the shipments made in 2024 and the distance to the city of the customer when the company sells (since the location of the final installation is unknown) have been considered.
- The installation (A5) is manual so there is no energy consumption, but the necessary fixing materials are required depending on the type of installation.
- No additional process is taken into account during the use phase, which is estimated as a 50-year reference value, as long as the manufacturer's instructions for use are met.
- For the waste transport stages, the exact quantities and distances to each manager have been considered, and in the case of packaging waste or end-of-life product (A5 and C2), an average distance of 80 km when it goes to landfill or recycling and 130 km when it goes to incineration, as indicated by the PCR.
- Finally, given the uncertainty of the end of life of the product, it is considered to be in landfill, so there are no benefits to be considered in module D of the end of life of the product. The benefits corresponding to the recycling of each of the packaging materials according to the fraction indicated in the Eurostat Statistics 2022 will be considered in this module.

Declared modules, geographical scope, percentage of specific data (in GWP-GHG indicator) and data variation):

The following table shows the declared modules, geographical scope, percentage of specific data (in GWP-GHG indicator) and data variation:

	Production stage			Construction stage		Stage of use							End-of-life stage				Resource valorization stage
	Raw materials	Transportation of raw materials	Manufacturing	Transportation (distribution)	Installation	Application	Maintenance	Repair	Substitution	Refurbishment	Energy Usage	Water Use	Demolition	Waste transport	Waste treatment	Final Disposition	Reuse- Recovery- Recycling
Module	**A1**	**A2**	**A3**	**A4**	**A5**	**B1**	**B2**	**B3**	**B4**	**B5**	**B6**	**B7**	**C1**	**C2**	**C3**	**C4**	**D**
Declared Modules	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Geographical location	CN	GLO	EN	EU27													-
Specific data	4%					-	-	-	-	-	-	-	-	-	-	-	-
Product Variability	<10%*					-	-	-	-	-	-	-	-	-	-	-	-
Location variability	0%					-	-	-	-	-	-	-	-	-	-	-	-

* Results are based on worst scenario and the variability is lower than 10% in any case due to the minor influence of A3

Process	Font Type	Source	Reference year	Data category	Contribution of primary data to GWP-GHG results for A1-A3
(A1) TNT Panel Production	Database	Ecoinvent v3.11	2024	Secondary data	94.5%
Recycled PET fibre accounts for the next 47.73% of the GWP-GHG indicator in A1-A3, with a value of 340.83 kg CO2 eq/ton					
Transporting the panel to the factory	Database	Ecoinvent v3.11	2024	Primary data	4.0%
(A3) Production process (mainly electricity consumed)	Owner EPD (consumption) Energy supplier (renewable source) Database (renewable mix)	Data collected	2024	Primary data	0.008%
(A3) Packing Production	Database	Ecoinvent v3.11	2024	Secondary data	0.983%
Total Contribution of Primary Data to GWP-GHG Results for A1-A3					4.008%

Data quality:

Element	Description
Data collection	01/01/2023 to 01/12/2025
Facilities used	Primary data collected from the manufacturer's production plant representing the actual process technology.
Geographical scope	Raw material produced in China Produced in Spain Sold Europe and Brazil Use and disposal Europe and Brazil.
Temporal representativeness	Data ≤ 5 years
Technology	The raw material is a PET TNT panel with a minimum of 75% post-consumer recycled fibre that is processed in Spain with a cutting table that configures the final design (aesthetics).
Averaged	The production data has been direct data from the company for said product (energy consumed calculated based on the processing time and power of the machine) and losses based on calculation based on dimensions and density of the material.
ICV/LCA database	Ecoinvent v3.11 databases by using SimaPro 10.1.0.2 software, applying the Cut-off system
EPD used	Global
Data Quality Schema	EN 15941 / EN 15804:2012+A2:2019, Annex E, Table E.2
Using fair data with more than 30% of a top impact	None
Use of irrelevant data	None
Use of very irrelevant data	None

	TiR	GeR	TeR	P	C	M	Average
(A1) TNT Panel	4	5	3	3	4	4	3,8
(A2) Transporting the panel to the factory	4	3	4	4	4	4	3,8
(A3) Production process (mainly electricity consumed)	5	5	5	4	3	3	4,2
(A3) Packing Production	4	3	3	3	3	4	3,3
A4 Product distribution transport	4	3	4	4	4	4	3,8
A5 Installation silicone adhesive	4	4	5	4	5	4	4,3
						Total Average	3.9

ENVIRONMENTAL PERFORMANCE

LCA results of products – main environmental performance results

Results are obtained per functional unit consisting 1 m^2 of Harmonium acoustic base, with 12mm thickness, class A (absorption coeficient 0.9 αW) , installed on walls, ceilings, hanging from ceilings or as a divider, with a use life of 50 years. The conversion factor to mass of the functional unit is 2.4 kg/m^2.

Mandatory impact category indicators according to EN 15804

Indicator abbreviation	Unit (EN)														
		A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
GWP-total	kg CO2 eq.	4,77E+00	5,84E-01	2,06E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,45E-03	2,19E-02	0,00E+00	6,11E-04	-1,39E-03
GWP-fossil	kg CO2 eq.	4,72E+00	5,84E-01	1,47E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,44E-03	2,08E-02	0,00E+00	6,11E-04	-1,25E-03
GWP-biogenic	kg CO2 eq.	4,27E-02	2,03E-05	5,92E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,00E-06	7,00E-06	0,00E+00	5,67E-08	-1,31E-04
GWP-luluc	kg CO2 eq.	5,78E-03	9,23E-06	1,81E-03	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,55E-06	1,07E-03	0,00E+00	3,08E-08	-1,45E-06
ODP	kg CFC-11 eq.	9,42E-06	1,33E-08	9,73E-05	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,14E-11	9,59E-10	0,00E+00	8,78E-12	-1,50E-11
AP	mol H+ eq.	3,14E-02	1,51E-03	8,47E-03	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	9,50E-06	4,86E-05	0,00E+00	5,50E-06	-5,55E-06
EP-freshwater	kg P eq.	1,44E-04	3,61E-07	5,13E-05	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	8,51E-08	8,32E-08	0,00E+00	2,01E-09	-7,61E-09
EP-marine	kg N eq.	7,25E-03	5,75E-04	1,55E-03	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	3,03E-06	2,89E-05	0,00E+00	2,51E-06	-2,32E-06
EP-terrestrial	mol N eq.	7,60E-02	6,29E-03	1,68E-02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	3,34E-05	2,18E-04	0,00E+00	2,75E-05	-2,47E-05
POCP	kg NMVOC eq.	2,64E-02	2,50E-03	5,84E-03	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,02E-05	7,51E-05	0,00E+00	8,34E-06	-8,77E-06
ADPE	kg Sb eq.	2,14E-06	1,52E-08	4,66E-05	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	7,58E-11	2,66E-09	0,00E+00	2,03E-11	-5,49E-11
ADPF	MJ, net calorific value	7,90E+01	7,77E+00	2,06E+01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,77E-02	2,77E-01	0,00E+00	7,81E-03	-1,33E-02
WDP	M3 World EQ. deprived	1,75E+00	2,54E-03	3,45E+01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,87E-04	5,53E-04	0,00E+00	6,83E-06	-2,10E-05

Acronyms	GWP-fossil = Global Warming Potential of Fossil Fuels; GWP-biogenic = Biogenic Global Warming Potential; GWP-luluc = Global Warming Potential from Land Use and Change; GWP-Total = Total Global Warming Potential; ODP = Stratospheric Ozone Depletion Potential; AP = Acidification potential, cumulative surplus; EP-freshwater = Eutrophication potential, fraction of nutrients that reach the final freshwater compartment; EP-marine = Eutrophication potential, fraction of nutrients that reach the final seawater compartment; EP-terrestrial = Eutrophication potential, accumulated surplus; POCP = Tropospheric Ozone Formation Potential; ADP-minerals&metals = Abiotic resource depletion potential for non-fossil resources; ADP-fossil = Abiotic resource depletion potential for fossil resources; WDP = Water Deprivation Potential (User), Weighted Water Deprivation Consumption

** Caution: The results of this environmental impact indicator should be used with caution, as they present a high degree of uncertainty or there is little experience with the indicator.*

Estimated impact results are only relative statements, which do not indicate the endpoints of the impact categories, the exceedance of threshold values, the margins of safety or the risks.

End-of-life results (C1-C4 modules) should be taken into account when using product stage results (A1-A3 modules).

Mandatory and voluntary additional impact category indicators

Additional mandatory environmental impact indicators																
Indicator	Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
GWP-GHG[2]	kg CO2 eq.	5,31E+00	5,84E-01	1,52E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,45E-03	2,19E-02	0,00E+00	6,11E-04	-1,39E-03
Additional voluntary environmental impact indicators (OPTIONAL)																
PM)	Disease incidence	2,77E-07	3,89E-08	7,24E-08	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,65E-10	1,63E-09	0,00E+00	1,56E-10	-1,14E-10
IRP[3]	kBq U235 eq.	1,10E-01	7,46E-04	5,96E-02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,81E-04	1,58E-05	0,00E+00	7,74E-07	2,97E-06
ETP-fw	CTUe	2,62E-09	3,94E-11	4,34E-09	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,31E-13	2,78E-12	0,00E+00	4,21E-14	-2,99E-13
HTP-c	CTUh	1,92E+01	2,78E-01	1,15E+02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,89E-03	9,99E-02	0,00E+00	2,99E-04	-3,02E-03
HTP-nc	CTUh	3,09E-08	3,87E-09	1,95E-08	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	5,10E-12	1,93E-10	0,00E+00	8,07E-13	-8,96E-12
SQP	dimensionless	1,40E+01	9,87E-03	4,37E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,15E-02	9,88E-02	0,00E+00	9,22E-03	-3,53E-04

Particulate matter emissions (PM); Ionizing radiation, human health (IRP); Eco-toxicity - freshwater (ETP-fw); Human toxicity, cancer effect (HTP-c); Human toxicity, non-cancer effects (HTP-nc); Land use related impacts/Soil quality (SQP)

[2] This indicator considers all greenhouse gases, except for the absorption and emissions of biogenic carbon dioxide and the biogenic carbon stored in the product. Therefore, it is identical to the GWP-total, except that the biogenic CO2 factor is set to zero.

[3] 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.

Resource Usage Indicators

Indicator	Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
PERE	MJ, net calorific value	1,15E+00	1,94E-02	7,81E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	4,55E-03	2,97E-03	0,00E+00	3,67E-05	-3,26E-06
PERM	MJ, net calorific value	5,48E+00	0,00E+00	-5,48E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PERT	MJ, net calorific value	6,63E+00	1,94E-02	2,33E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	4,55E-03	2,97E-03	0,00E+00	3,67E-05	-3,26E-06
PENRE	MJ, net calorific value	2,86E+01	8,26E+00	2,31E+01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,90E-02	3,02E-01	0,00E+00	5,50E+01	-1,42E-02
PENRM	MJ, net calorific value	5,60E+01	0,00E+00	-1,03E+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	-5,50E+01	0,00E+00
PENRT	MJ, net calorific value	8,45E+01	8,26E+00	2,21E+01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,90E-02	3,02E-01	0,00E+00	8,31E-03	-1,42E-02
SM	kg	1.80E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RSF	MJ, net calorific value	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NRSF	MJ, net calorific value	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FW	m3	4,64E-02	1,50E-04	8,07E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,24E-05	5,66E-05	0,00E+00	2,64E-07	-6,89E-07

PERE = Use of renewable primary energy, excluding renewable primary energy resources used as feedstocks; PERM = Use of renewable primary energy resources used as feedstocks; PERT = Total use of renewable primary energy resources; PENRE = Use of non-renewable primary energy, excluding non-renewable primary energy resources used as feedstocks; PENRM = Use of non-renewable primary energy resources used as feedstocks; 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 = Net freshwater use

Waste indicators

Indicator	Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Hazardous waste disposed (HWD)	kg	7.48E-04	7.01E-05	5.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-07	3.02E-06	0.00E+00	2.19E-07	-6.48E-04
Non-hazardous waste disposed (NHWD)	kg	5.83E-01	4.93E-01	1.92E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-01	2.94E-02	0.00E+00	2.24E-01	-1.09E-07
Radioactive waste disposed (RWD)	kg	8.11E-05	3.02E-06	3.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-07	9.05E-08	0.00E+00	5.01E-09	1.81E-09

Outflow indicators

Indicator	Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Components for re-use (CRU)	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Materials for recycling (MFR)	kg	0.00E+00	0.00E+00	2.02E-01*	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Materials for energy recovery (MER)	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Exported electrical energy (EEE)	MJ, net calorific value	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Exported thermal energy (EET)	MJ, net calorific value	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

* In A5, the only materials considered for recycling are part of the packaging materials. This is an estimate given that this amount is calculated based on the latest published percentages (2022) for this type of waste in Europe according to Eurostat.

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

No additional lifecycle analysis indicators have been calculated for the product.

As mentioned above, the conversion factor of the functional unit 1m^2 to kg of material is 2.4 kg/m^2.

ADDITIONAL ENVIRONMENTAL INFORMATION

As mentioned above, the conversion factor of the functional unit 1m2 to kg of material is 2.4 kg/m2.

ADDITIONAL SOCIAL AND ECONOMIC INFORMATION

The Zahonero group, of which the company DB-COVER SL is a part, published a sustainability report in 2023 in accordance with GRI standards, which can be consulted at the following link:

https://www.zahonero.com/wp-content/uploads/2025/02/Zahonero_Memoria-sostenibilidad-2023-1.pdf

The company DB-COVER SL is ISO 9001:2015 certified (ES14/17047) with the following scope: manufacture and sale of latex foam products. Marketing of polymeric products. Valid until 2026

INFORMATION RELATED TO SECTORAL EPDs

It is not a sectoral EPD

ABBREVIATIONS

EN	European Norm (Standard)
EF	Environmental Footprint
GPI	General Programme Instructions
ISO	International Organization for Standardization
CEN	European Committee for Standardization
CPC	Central product classification
GRI	Global Reporting Initiative
SVHC	Substances of Very High Concern
CN	China
GLO	Global
ES	Spain
TNT	Non-woven fabric
EPD	Environmental Product Declaration
LCA	Life Cycle Assessment
PCR	Product Category Rules
c-PCR	Complementary Product Category Rules
GHG	Greenhouse Gas

Environmental Impact Indicators (EN 15804)

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	Renewable primary energy (excluding as raw materials) (MJ)
PERM	Renewable primary energy used as raw materials (MJ)
PERT	Total renewable primary energy (MJ)
PENRE	Non-renewable primary energy (excluding as raw materials) (MJ)
PENRM	Non-renewable primary energy used as raw materials (MJ)
PENRT	Total non-renewable primary energy (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)
RHW	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

Units
MJ Megajoule
kg Kilogram
m2 Square Meter
m3 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
kg C Kilograms of Carbon
kg CO_2 eq. Kilograms of Carbon Dioxide Equivalent
ND Not Declared

REFERENCES

Normative references:

• Standard UNE-EN 15804:2012+A2:2019/AC:2021 Basic Product Category Rules (PCR) for construction products
• General Programme Instructions for the International EPD System Version 5.0.1. 2025-02-27
• PCR 2019:14 Building Products version 2.0.1
• ISO 14020:2022 Environmental management — Life cycle analysis — Principles and framework
• ISO 14021:2016 Environmental Labels and Declarations — Self-Declared Environmental Claims (Type II Environmental Labeling)
• ISO 14025:2006 Environmental labels and declarations. Type III environmental declarations. Principles and procedures.
• ISO 14040:2006/1:2020 Environmental management. Life cycle analysis. Principles and frame of reference.
• ISO 14044:2006 Environmental management. Life cycle analysis. Requirements and guidelines.

Content References:

- Product website: https://www.harmonium.es/
- Catalog
- Burgeree supplier certificates: ISO 9001, ISO 14001 and ISO 16000.
- Burgeree Supplier Environmental Product Declaration Compliant with UL Environment Program (4791433200.101.1)
- Certified recycled content of raw material in accordance with SCS Recycled Standad V7-0
- Harmonium Installation Instructions
- Technical data sheets of the fastening materials.
- Life cycle assessment by AIDIMME (04/03/2026) v1.

VERSION HISTORY

Original Version of the EPD, 2026-06-15

EPD
INTERNATIONAL EPD SYSTEM
www.environdec.com