

Environmental Product Declaration



In accordance with ISO 14025:2010 and EN 15804:2012+A2: 2019/AC:2021 for:

Sound-absorbing foam panel with ILUCS fabric

of

ISINAC ACOUSTIC WORLD SLU



Programme:	The International EPD System, www.environdec.com
Programme Operator:	EPD International AB
Type of EPD:	EPD of a single product from a manufacturer
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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
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Product Category Rules (PCR)
CEN standard 15804 serves as the core Product Category Rules (PCR)
Product Category Rules (PCR): PCR 2019:14 Construction products, version 2.0.1, date 2025-06-05, valid until 2030-04-07 <i>C-PCR-014 TO PCR 2019:14 - ACOUSTICAL CEILING AND WALL SOLUTIONS v1.0.1 DATE 2026-07-02, VALID UNTIL 2027-07-28</i>
PCR review was conducted by: The <i>Technical Committee</i> of the International EPD System. A full list of members is available on www.environdec.com . Chairs of the PCR: Rob Rouwette (chair) and Noa Meron (co-chair). The review panel can be contacted at support@environdec.com

Third-party verification
Independent third-party verification of the declaration and data, according to ISO 14025:2006, via:
☒ Individual EPD verification without a pre-verified LCA/EPD tool
Third-party verifier: Elisabet Amat Guasch, GREENIZE Approved by: International EPD System

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.

Comparability between EPDs is only achievable if the following performance characteristics are equivalent: declared unit, containment level, level of working width, assumed service life, geographic region and fulfilment of the same requirements of the applicable standard (EN 13964:2014).

INFORMATION ABOUT EPD OWNER

Owner of the EPD:

ISINAC ACOUSTIC WORLD SLU

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Organization description:

ISINAC ACOUSTIC WORLD SLU, hereinafter ISINAC, is a manufacturer of acoustic comfort solutions for all types of spaces and sectors. With over a decade of experience, it develops solutions based on sustainability, durability, and high performance. Its technical team analyses each project individually to design customized solutions that contribute to improving people's quality of life.

Their systems are present in a wide variety of environments: workspaces, educational centres, restaurants, the hotel sector, healthcare facilities, and sports venues, among others. These are mostly spaces designed for interaction and communication, where acoustic control is key to the optimal development of the activity.

Throughout its history, ISINAC has consistently focused on innovation and the development of new materials and technologies, aiming to offer effective, durable solutions with a high level of finish. It boasts a wide range of its own fabrics, including ILUCS, which incorporates the only certified flame-retardant polyester on the market; and IZZER, a collection of fabrics made from 100% natural wool.

The quality and reliability of ISINAC products are based on a continuous system of testing and technical verification. All materials are analysed in independent laboratories that are leaders in the acoustics sector, validating their absorption capacity in all relevant parameters, such as their behaviour over time and in fire—an essential aspect for their application in public spaces.

Based in Spain, ISINAC markets its acoustic absorption solutions in nearly 30 countries, through a consolidated distribution network with a presence on four continents.

ISINAC holds ISO 14001:2015 and ISO 14006:2020 certifications for Environmental Management Systems. Ecodesign is incorporated into its practices.

PRODUCT INFORMATION

Product name and intended use:

Melamine foam sound-absorbing panels with Camira Lucia CS fabric (ILUCS) for use in the construction sector as acoustic absorption elements.

UN CPC Code:

54790 - Other building completion and finishing services.

Product description:

This EPD applies to ISINAC melamine foam sound-absorbing panels with Camira Lucia CS fabric (ILUCS) with absorption coefficient 0.85 class A.

The product's trade name is 40 mm adhesive foam panel with Camira Lucia CS 100% fabric (ILUCS). It consists of a layer of melamine mineral foam and another layer of Camira Lucia CL fabric (ILUCS) protected with silicone paper. The panels have a variable geometry, according to ISINAC's design, for the proper acoustic conditioning of spaces.

The panel has a density of 9 kg/m², a compressive strength greater than 5 kPa, a tensile strength greater than 90 kPa, and a thermal conductivity of 0.035 W/mK or less. The fabric has a weight of 265 g/m², is manufactured in widths from 140 cm to 170 cm, and has an interior lightfastness rating of 6, an exterior lightfastness rating of 3, and a frictional resistance rating of 4. The foam panel is a sound-absorbing material that meets the highest standards for acoustic absorption, fire resistance, and hygiene. Another very important aspect is that it is an environmentally friendly material throughout its entire manufacturing process (VOC A). The Camira Lucia CS 100% (ILUCS) fabric is made of washable, 100% recyclable, and fire-resistant Trevira CS polyester. Choose from 40 colours or personalize it with logos, photos, or Pantone colours. The fabric covers the visible face plus the four side perimeters, anchored to the core by a 2 cm strip of fabric glued around the perimeter of the back face.

The BASOTECT foam panel is resistant to the following products: acetic acid, lactic acid, phosphoric acid, citric acid, sodium hypochlorite, 3.6% sodium chloride solution, water, 30% hydrogen peroxide, gasoline, diesel, and kerosene.

Visit the manufacturer's website for more technical information (www.isinac.com).

The variation between elements is not relevant and is based on the average production.

This EPD is for one product, based on the average production results of one year.



Regulations applicable to the product:

The technical characteristics of the sound-absorbing panels comply with ISO 845 (density), ISO 3386/1 (compressive strength), and ISO 1798 (tensile strength), as well as those pertaining to the Camira Lucia CS (ILUCS) fabric finish: EN ISO 105-B02 (interior lightfastness), EN ISO 105-B04 (exterior lightfastness), and ISO 105-X12 (friction resistance). Furthermore, the panels have passed acoustic absorption tests according to EN ISO 354 and have fire performance ratings according to EN 13501-1 and DIN 4102-1, among others.

Manufacturing process

The phases of the production process are as follows:

Manufacturing: BASF SE manufactures and ships melamine foam blocks (Basotect G+) from Ludwigshafen (Germany) to FLEXICEL PORTUGAL UNIPESOAL LDA in Braga (Portugal).

Assembly: FLEXICEL Portugal cuts the pieces to the required size and applies adhesive. For upholstery, an acrylic adhesive is used on a silicone-coated paper base and polyester mesh.

Internal shipment: FLEXICEL Portugal ships the finished parts to ISINAC in Vigo, Spain.

Fabric: ISINAC receives the Camira Lucia CS (ILUCS) fabric from the United Kingdom or Italy and assembles it onto the pieces.

Packaging and storage: ISINAC packages and stores the pieces. If the panels do not have fabric and it is necessary to add it before shipping them to the customer, this process is carried out at ISINAC Vigo facilities.

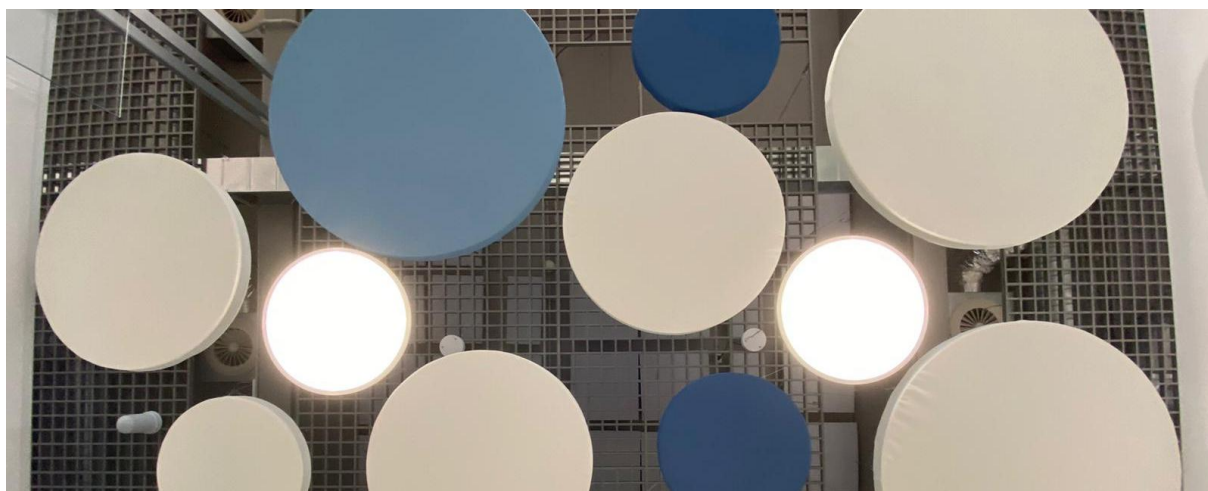
Distribution: the product is sent to the end customer from Vigo, by road, plane or by ship, depending on the destination.

Name and location of the production site:

This Environmental Product Declaration is for melamine foam sound-absorbing panels with Camira Lucia CS (ILUCS) fabric, manufactured by ISINAC at the FLEXICEL plant in Braga (Portugal) and finished at ISINAC's facilities in Vigo (Spain).

Plant address:

Ramón Nieto Avenue, 125
36205 Vigo, Spain



CONTENT INFORMATION

Product

The product for which this EPD is written has the following composition:

Components	Mass, kg	Post-consumer recycled material, % by weight of product	Biogenic material, % mass of product	Biogenic material, kg C/product or declared unit
Foam	0.36	0.00%	0.00%	0.000
Silicone-coated paper	0.05	0.00%	6.71%	0.027
Adhesive	0.01	0.00%	0.00%	0.000
Fiberglass	0.0002	0.00%	0.00%	0.000
ILUCS fabric	0.265	0.00%	0.00%	0.000
Total	0.69	0.00%	6.71%	0.027

The manufacturer declares that no hazardous substances listed in the “*Candidate List of Substances of Very High Concern (SVHC) for authorisation*” are used during the product's life cycle.

The average density of the products studied is 9 kg/m³ ±16%.

Packaging

The study included the primary packaging used in the shipment of the product (transport or tertiary packaging) and the primary or sales packaging.

Packaging type	Mass, kg	Mass-% (versus the product)	Biogenic material, kg C/product or declared unit
Cardboard boxes	1.80	0.18%	0.79
Adhesive tape (PP)	0.01	0.001%	0.00
Pallets (HDPE)	0.56	0.06%	0.00
Shrink film (LLDPE)	0.04	0.004%	0.00
Total	2.40	0.18%	0.79



LCA Information

Declared unit:

The declared unit is one square meter (1 m²) of acoustic panel installed, with absorption coefficient 0.85 class A.

Conversion factor to mass: 0.69 kg/m² (final product weight, not including production losses).

Reference service life:

25 years.

Temporal representativeness:

The inventory data refers to the 12-month period, corresponding to the year 2025, representing conventional operating conditions.

Geographic scope:

The products studied are manufactured in Spain but can be used globally.

LCA database and software used:

Ecoinvent 3.12 database.

SimaPro Software 10.4.0.0.

The following criteria were applied to the selection of the most representative processes:

- Data should be representative of the technological development actually applied in manufacturing processes. If such information is unavailable, a figure representative of an average technology has been selected.
- Data should be average European data.
- Data should be as up-to-date as possible.

Description of system boundaries:

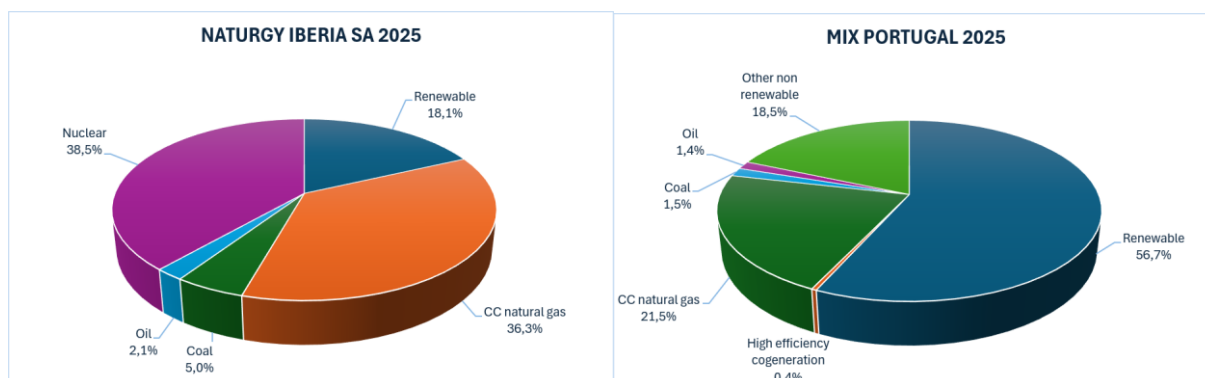
The life cycle from cradle to gate has been studied with modules A4, A5, B, C and D (A1 - A3, A4-A5, B1-B7, C1-C4 and D).

Module A1: Raw material supply.

This module includes the raw material production process, which considers:

- The extraction of resources and raw materials.
- Transport to the processing/production centres of raw materials.
- Energy and fuel consumption during the production of raw materials.
- The consumption of other resources (such as water) during the production of raw materials.
- The generation of waste and emissions into the air and spills into water and soil, during the production of raw materials.
- The production of the electricity used in the manufacturing/assembly process.

The energy for the manufacturing process at the FLEXICEL plant comes from the Portuguese residual energy mix, and for production at the ISINAC plant in Vigo, the mix of the marketing company NATURGY IBERIA SL is modelled, both for year 2025. The GHG emissions, evaluated with the IPCC 2021 methodology over 100 years, are 0.155 kgCO_{2e}/kWh for NATURGY IBERIA and 0.638 kgCO_{2e}/kWh for the Portuguese residual mix.



Module A2: Transportation.

The transport of all raw materials from the production sites (suppliers) to the ISINAC panel assembly plant in Portugal (FLEXICEL assembly plant), and from there to ISINAC's facilities in Vigo, has been taken into account, as well as the transport of materials delivered directly from the supplier to ISINAC's facilities. This transport is carried out entirely by road. ISINAC, which is familiar with the location of its suppliers' plants and facilities, provided the transport distances and the location of the raw material suppliers.

Module A3: Manufacturing.

This stage includes the manufacture and transport of auxiliary and packaging materials, as well as the transport and management of waste generated during this phase of the life cycle. Waste transport distances were provided by ISINAC.

Module A4: Transportation to site.

The transport of finished panels from ISINAC's Vigo plant to an average customer has been considered. Three scenarios were considered: an average customer in the Iberian Peninsula, in Europe, and in the rest of the world. For the Iberian Peninsula and Europe, only road transport was considered. For the rest of the world, road transport to the port of Vigo and then by ship to the final destination port were taken into account. Subsequent road transport was not included.

Parameters	Value
Liters of diesel:	
- EURO 6 truck 3.5-7.5 t (GVW 4.98 t)	0.132 l/tkm
- Ship	0.003 l/tkm
Average distance	
- Truck Iberian Peninsula	680 km
- Truck Europe	2,600 km
- ISINAC Truck – Port of Vigo	3.5 km
- Ship (rest of the world)	8,850 km
Occupancy coefficient (including empty return)	50%*
Linear density of transported products	0.69 kg/m ²
Useful capacity factor	1

* Percentage obtained from the Ecoinvent database
Trucks. Average load factor: 0.98t

Module A5: Product Installation.

No tools or water are required to install the panels. The process is done manually, first removing the backing silicone-coated paper and then adhering the panel to the substrate. The Life Cycle Assessment (LCA) takes into account the removal and treatment of the paper, which is entirely sent for recycling, considering a distance of 80 km to the waste processing site, by EURO5 of 16-32 tons truck.

All packaging is also entirely sent for recycling.

Module B1: Use

In the LCA it has been considered that in the use module (B1) there is no consumption of materials, energy or water and therefore no impacts are generated, so this module has zero impact.

Module B2: Maintenance

The LCA considered that the maintenance module (B2) consumes energy due to the regular cleaning required. This cleaning is done with a vacuum cleaner, which energy consumption per square meter is provided by the organization (0.05 kWh/m²/year). The product's service life, estimated by the company at 25 years, was also taken into account.

Module B3: Repair

In the LCA it has been considered that the repair module (B3) is not a possible scenario, given that the panels do not deteriorate from use and that the circumstance of damage would be occasional and fortuitous and therefore its repair is not necessary, so this module has zero impact.

Module B4: Replacement

In the LCA it has been considered that the replacement module (B4) is not a possible scenario, given that the panels do not deteriorate from use and therefore their replacement is not necessary, so this module has zero impact.

Module B5: Refurbishment

In the LCA it has been considered that the refurbishment module (B5) is not a possible scenario in the use phase, since the panels are not individually refurbished, but in any case, they are replaced at the end of their service life, so this module has zero impact.

Module B6: Operational energy Use

In the LCA it has been considered that in the operational energy use module (B6) there is no consumption since the panels are passive elements, which do not require electricity during the use phase, beyond what is considered in module B2, maintenance, therefore no impacts are generated, so this module has zero impact.

Module B7: Operational water Use

In the LCA it has been considered that in the operational water use module (B7) there is no consumption since the panels are passive elements, which do not require water consumption during the use phase, therefore no impacts are generated, and this module has zero impact.

Module C1 – Deconstruction / demolition.

In the LCA, the deconstruction module (C1) has been deemed irrelevant for the quantitative analysis. Material and energy consumption for the deconstruction and extraction of ISINAC products is included within the framework of the building of which they are part; therefore, this module has zero impact.

Module C2: Transport to the waste processing /recovery site.

It is considered that all the elements that are dismantled after the use phase of the sound-absorbing panels are transported by road over a different average distance, depending on whether it is waste that is to be incinerated or not, as stipulated by the PCR: 130 km for waste destined for incineration and 80 km to the nearest waste management point, the remaining waste, with EURO5 trucks of 16-32 tons.

Module C3: Waste processing and Module C4: Waste Disposal

To determine the percentages of recycling and disposal in landfill and incineration of the sound-absorbing panels, the criteria of Part C of Annex 2 V2.1 (May 2020) of the Circular Footprint Formula of the European Union Environmental Footprint methodology are applied (COMMISSION RECOMMENDATION (EU) 2021/2279 of 15 December 2021 on the use of the Environmental Footprint methods to measure and communicate the life cycle environmental performance of products and organisations).

Spain's incineration rate (14%) and landfill disposal rate (remaining amount: 86%) have been considered.

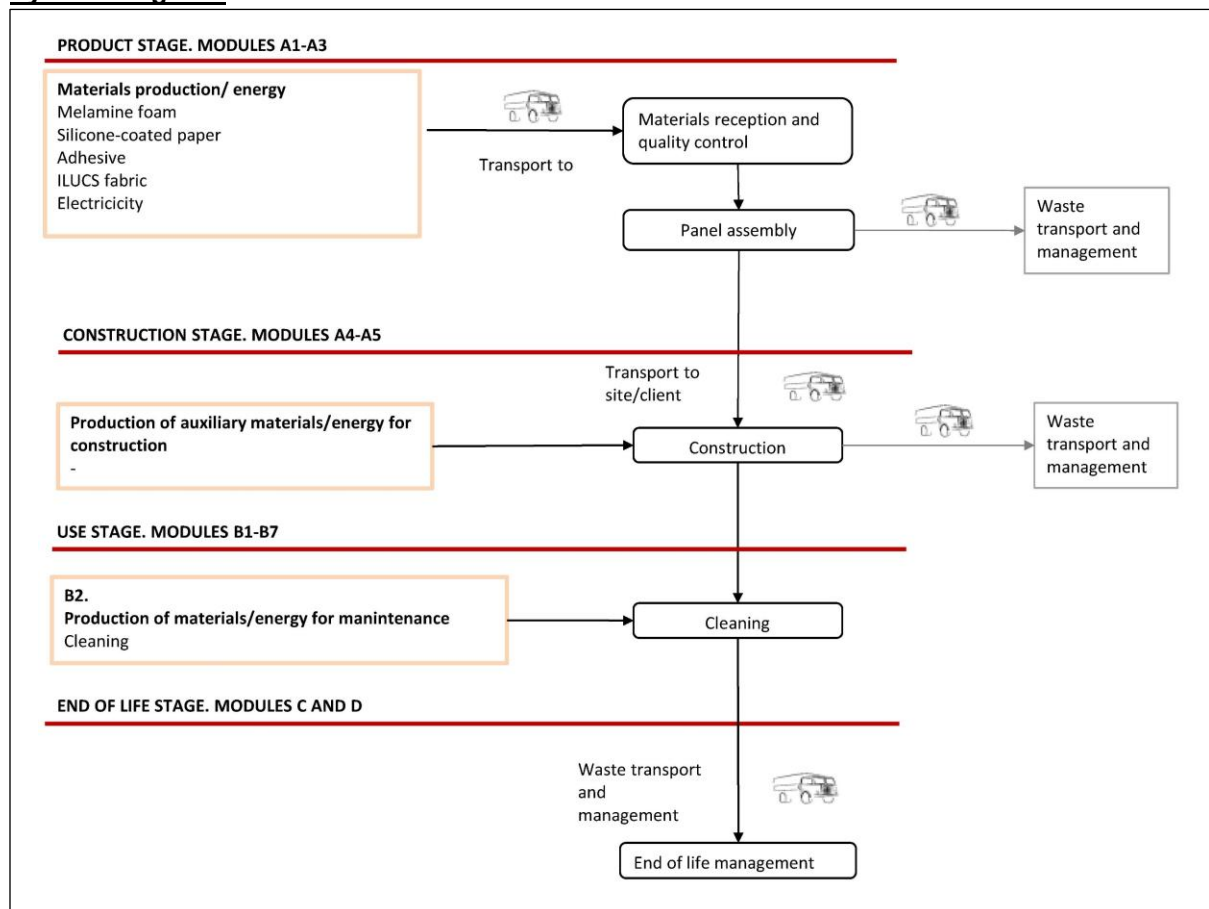
Parameters modules C1-C4	Value (per unit declared)
C1. Demolition	It is considered that during the process of deconstruction and dismantling of the panels, the consumption of matter and energy is not relevant within the framework of the building of which they are a part
C1. Collection process, specified by type	Panels: - 0% collected separately - 100% collected with a mixture of construction waste
C2. Transport to the management point	Transport of waste by EURO6 truck of 3.5-7.5 tonnes: - 80 km for waste that is not incinerated - 130 km for waste that is incinerated
C3. Recovery system, specified by type	Panels: 0% for recycling
C4. Disposal, specified by type	Panels: - 14% for incineration - 86% for landfill

Module D – Benefits beyond the system.

The modelling assumed that none of the sound-absorbing panels were recovered for recycling.

Two additional scenarios have been modelled: 100% energy recovery and 100% recycling of the panels affecting modules C2, C3, C4 and D. In the latter, the burdens and benefits generated in both situations have been taken into account: environmental benefits due to the non-extraction of materials and environmental burden due to the processes for recovery (classification, processing and transport to production plant).

System diagram:



Cut-off rules:

In accordance with the criteria of the reference standard, the LCA has included the gross weight/volume of all materials used in the manufacturing process of the sound-absorbing panels, so that at least 99% of the weight of the product unit is obtained.

There has been no exclusion of material or energy consumption.

Applied allocation rules:

In accordance with the reference standard, the allocation criterion applied was the assignment of system inputs and outputs based on physical properties (mass). This allocation criterion was applied to general factory consumption (electricity, fuel, and water) and to waste.

It has not been necessary to apply other types of allocation criteria, such as economic allocation.

Allocation is following the polluters pay principle.

No co-products are generated in the manufacture of ISINAC foam panels.

Limitations of the study:

The following were not included in the LCA:

- All equipment which service life is longer than 3 years.
- The construction of the plant buildings, nor other capital goods.
- The production of machinery and equipment for the installation of sound-absorbing panels.

- Work-related travel by staff; nor commuting.
- Research and development activities.

Representativeness, evaluation and quality of data:

To model the manufacturing process of ISINAC's sound-absorbing panels, production data from the year 2025 has been used, which is a period with representative production data, in which data on material and energy consumption; transport; and waste generation have been obtained.

The manufacturing of the panels presents a huge variety of solutions and possibilities.

The transport distances for all materials used in manufacturing were determined by knowing the location of the suppliers and calculating the distances to the assembler's facilities in Portugal, and from there to ISINAC's facilities in Vigo, or directly from the manufacturers' locations to ISINAC, as applicable. All transport of raw materials and packaging is by truck, even from the United Kingdom. To calculate the distances, the routes were modelled using a navigation system to determine the kilometres.

For the data relating to the installation of the foam panels, the organization has provided the average distance and load to the client for the calculations in module A4. As for the installation (A5), no tools are needed, so there is no energy consumption, and it has only been necessary to calculate the waste generated in the placement and its transport.

For the use phase, it has been assumed that consumption only occurs in the maintenance module (B2, for vacuum cleaning). The other modules do not cause any impact: during the usage phase itself (B1), the panels do not consume any energy as they are passive elements. Their repair (B3) and replacement (B4) are not considered necessary in isolation, but only at the end of their service life, and the possibility of a refurbishment scenario (B5) is not considered. During the usage phase, the panels do not require energy during their service life (B6) or water (B7), except as already considered in the maintenance module.

To represent the production of the Camira Lucia CS fabric (ILUCS), the existing EPD SCS-EPD-08784 of the SCS Global services program has been modelled.

For the remaining processes, the Ecoinvent 3.12 database (March 2026) was used, which is the most up-to-date version available at the time of the LCA. The database processes considered in the LCA were analysed using SimaPro 10.4.0.0 software, the most up-to-date version available at the time the LCA was performed. This software was used to model the LCA and calculate the environmental impact categories required by the PCR.

Under Standard 15941, the assessment covers data that together contribute at least 80% of the results for each of the declared environmental impact indicators.

The data quality criteria assessed for primary data are:

- Technological representativeness (TeR) – 2.00
- Geographical representativeness (GeR) – 1.00
- Time representativeness (TiR) – 1.00
- Accuracy (P) – 2.20

To assess the quality of the primary data used, the semi-quantitative data quality assessment criteria proposed by the European Union in its Guide to the Environmental Footprint of Products and

Organizations were applied, obtaining a *Data Quality Rating (DQR)* = 1.55, which indicates that the quality of the data is excellent.



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	Distribution / installation	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	De-construction demolition	Transport	Waste processing	Disposal	Reuse-Recovery-Recycling-potential
Module	A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Modules declared	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Geography	EU	EU	EU	GLO	GLO	GLO	GLO	GLO	GLO	GLO	GLO	GLO	GLO	GLO	GLO	GLO	GLO
Share of primary data	16.12% GWP*			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Variation - product	0%			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Variation - sites	0%			-	-	-	-	-	-	-	-	-	-	-	-	-	-

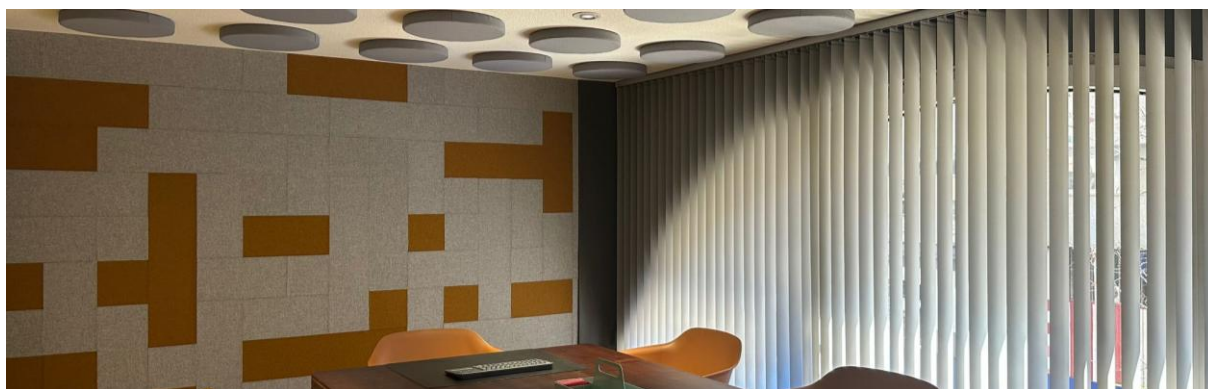
*ND: module not declared

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.

The reported share of primary data is associated with uncertainty, as the EPD used as data source lacks information on the share of primary data.

Process name	Source Type	Source	Reference year	Data category	Share of primary data, of GWP-GHG results for A1-A3
A1					
Melamine foam	Database	Ecoinvent v3.12	2026	Secondary data	0.00%
Silicone-coated paper	Database	Ecoinvent v3.12	2026	Secondary data	0.00%
Adhesive	Database	Ecoinvent v3.12	2026	Secondary data	0.00%
Fiberglass	Database	Ecoinvent v3.12	2026	Secondary data	0.00%
Camira Lucia CS Fabric (ILUCS)	EPD	EPD	2024	Secondary data	0.00%

Process name	Source Type	Source	Reference year	Data category	Share of primary data, of GWP-GHG results for A1-A3
A1					
Electricity supplied by an external marketer (ISINAC)	Database	Ecoinvent v3.12	2026	Primary data	1.22%
Electricity supplied by an external retailer (FLEXICEL)	Database	Ecoinvent v3.12	2026	Primary data	5.01%
A2					
Panel transport. BASF GERMANY (Ludwigshafen)-PORTUGAL (Sequeira)	Database	Ecoinvent v3.12	2026	Primary data	3.96%
Panel transport. ITALY-PORTUGAL	Database	Ecoinvent v3.12	2026	Primary data	0.37%
Fiberglass transport	Database	Ecoinvent v3.12	2026	Primary data	0.00%
ILUCS Transport. UK - ISINAC	Database	Ecoinvent v3.12	2026	Primary data	3.60%
ILUCS Transport. Italy - ISINAC	Database	Ecoinvent v3.12	2026	Primary data	0.79%
A3					
Box 1240x800x630	Database	Ecoinvent v3.12	2026	Secondary data	0.00%
Box 1240x800x1240	Database	Ecoinvent v3.12	2026	Secondary data	0.00%
Box 1240x630x630	Database	Ecoinvent v3.12	2026	Secondary data	0.00%
Adhesive tape (polypropylene)	Database	Ecoinvent v3.12	2026	Secondary data	0.00%
HDPE pallets	Database	Ecoinvent v3.12	2026	Secondary data	0.00%
Shrink film. LLDPE	Database	Ecoinvent v3.12	2026	Secondary data	0.00%
Transport of auxiliary materials and packaging	Database	Ecoinvent v3.12	2026	Primary data	1.16%
Factory waste transport	Database	Ecoinvent v3.12	2026	Primary data	0.00%
Total contribution of primary data to the PCG-GHG for A1-A3					16.12%



ENVIRONMENTAL PERFORMANCE

LCA results of the product(s) - main environmental performance results

The results from the end-of-life stage (modules C1-C4) should be considered when using the results of the product stage (modules A1-A3).

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.

Mandatory impact category indicators according to EN 15804

Results per declared unit (1 m ²)												
Indicator	Unit	A1-A3	A4	A5	B1	B2	B3-B7	C1	C2	C3	C4	D
GWP-GHG ¹	kg CO ₂ eq	9.64E+00	1.71E-01	2.00E-02	0.00E+00	1.88E-01	0.00E+00	0.00E+00	8.61E-03	0.00E+00	2.14E-01	0.00E+00
GWP-total	kg CO ₂ eq	6.65E+00	1.71E-01	3.02E+00	0.00E+00	1.88E-01	0.00E+00	0.00E+00	8.61E-03	0.00E+00	2.14E-01	0.00E+00
GWP- fossil	kg CO ₂ eq	9.50E+00	1.71E-01	2.00E-02	0.00E+00	1.85E-01	0.00E+00	0.00E+00	8.61E-03	0.00E+00	2.14E-01	0.00E+00
GWP- biogenic	kg CO ₂ eq	-2.88E+00	6.07E-06	3.00E+00	0.00E+00	5.09E-04	0.00E+00	0.00E+00	2.99E-07	0.00E+00	5.01E-05	0.00E+00
GWP- luluc	kg CO ₂ eq	3.30E-02	3.10E-06	3.16E-07	0.00E+00	2.70E-03	0.00E+00	0.00E+00	1.36E-07	0.00E+00	2.72E-05	0.00E+00
ODP	kg CFC-11 eq	6.85E-06	3.68E-09	4.54E-10	0.00E+00	2.78E-09	0.00E+00	0.00E+00	1.96E-10	0.00E+00	2.14E-09	0.00E+00
AP	mol H ⁺ eq	3.55E-02	8.70E-04	5.16E-05	0.00E+00	7.12E-04	0.00E+00	0.00E+00	2.22E-05	0.00E+00	2.14E-04	0.00E+00
EP- freshwater	kg P eq	1.86E-03	1.09E-07	1.23E-08	0.00E+00	2.47E-06	0.00E+00	0.00E+00	5.32E-09	0.00E+00	4.76E-06	0.00E+00
EP-marine	kg N eq	8.74E-03	2.10E-04	1.97E-05	0.00E+00	1.50E-04	0.00E+00	0.00E+00	8.47E-06	0.00E+00	5.08E-05	0.00E+00
EP- terrestrial	mol N eq	9.01E-02	2.33E-03	2.15E-04	0.00E+00	1.68E-03	0.00E+00	0.00E+00	9.27E-05	0.00E+00	5.57E-04	0.00E+00
POCP	kg NMVOC eq	3.39E-02	8.61E-04	8.54E-05	0.00E+00	6.21E-04	0.00E+00	0.00E+00	3.68E-05	0.00E+00	2.27E-04	0.00E+00
ADP- minerals & metals ¹	kg Sb eq	2.33E-05	4.04E-09	5.21E-10	0.00E+00	1.23E-08	0.00E+00	0.00E+00	2.24E-10	0.00E+00	4.68E-09	0.00E+00
ADP-fossil ¹	MJ, vcn.	1.45E+02	2.24E+00	2.66E-01	0.00E+00	6.35E+00	0.00E+00	0.00E+00	1.14E-01	0.00E+00	9.93E-01	0.00E+00
WDP ¹	m ³ eq	5.63E+00	7.52E-04	8.73E-05	0.00E+00	1.88E-01	0.00E+00	0.00E+00	3.76E-05	0.00E+00	8.66E-03	0.00E+00

GWP-GHG : Global warming potential excluding biogenic carbon; **GWP - total**: Global warming potential - total; **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, freshwater; **EP- marine**: Eutrophication potential, marine; **EP- terrestrial**: Eutrophication potential, terrestrial; **POCP**: Photochemical ozone creation potential; **ADP-minerals & metals**: Abiotic depletion potential - non-fossil resources; **ADP- fossil**: Abiotic depletion potential - fossil resources; **WDP**: Water (use) deprivation potential.

Disclaimer 1. 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 experience with the indicator.

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. The biogenic carbon in the raw material is sequestered at A1 and released at A5, because it is separated on-site from the rest of the product and sent for waste management with the packaging.

Additional voluntary impact category indicators

Results per declared unit (1 m ²)												
Indicator	Unit	A1-A3	A4	A5	B1	B2	B3-B7	C1	C2	C3	C4	D
PM	Incidence of diseases	2.69E-07	6.53E-09	1.33E-09	0.00E+00	2.68E-09	0.00E+00	0.00E+00	5.73E-10	0.00E+00	2.51E-09	0.00E+00
IRP ¹	kBq U235 eq	1.97E-01	2.09E-04	2.55E-05	0.00E+00	8.04E-02	0.00E+00	0.00E+00	1.10E-05	0.00E+00	1.52E-03	0.00E+00
ETP-fw ²	CTUe	2.02E+01	6.93E-02	9.49E-03	0.00E+00	1.19E-01	0.00E+00	0.00E+00	4.09E-03	0.00E+00	3.16E+00	0.00E+00
HTP-c ²	CTUh	1.05E-08	1.12E-11	1.35E-12	0.00E+00	2.81E-11	0.00E+00	0.00E+00	5.80E-13	0.00E+00	2.42E-10	0.00E+00
HTP-nc ²	CTUh	3.62E-08	7.33E-10	1.32E-10	0.00E+00	4.81E-10	0.00E+00	0.00E+00	5.71E-11	0.00E+00	4.34E-10	0.00E+00
SQP ²	Pt	7.64E+01	2.85E-03	3.38E-04	0.00E+00	5.85E-01	0.00E+00	0.00E+00	1.45E-04	0.00E+00	7.63E-02	0.00E+00

PM: Particulate matter emissions; **IRP:** Ionizing radiation, human health; **ETP-fw:** Ecotoxicity - freshwater; **HTP-c:** Human toxicity, cancer effects; **HTP-nc:** Human toxicity, non-cancer effects; **SQP:** Land use related impacts/Soil quality.

Disclaimer 1. This impact category deals primarily with the potential impacts of low doses of ionizing radiation on human health from the nuclear fuel cycle. It does not consider the effects of potential nuclear accidents or occupational exposure from the disposal of radioactive waste in underground facilities. The ionizing radiation potential of soil, due to radon or certain building materials, is also not measured in this parameter.

Disclaimer 2. The results of this environmental impact indicator should be used with caution as the uncertainties of the results are high and experience with this parameter is limited.

Resource use indicators

Results per declared unit (1 m ²)												
Indicator	Unit	A1-A3	A4	A5	B1	B2	B3-B7	C1	C2	C3	C4	D
PERE	MJ, vcn	5.34E-03	6.53E-04	0.00E+00	2.56E+00	0.00E+00	0.00E+00	2.81E-04	0.00E+00	4.66E-02	0.00E+00	5.34E-03
PERM*	MJ, vcn	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, vcn	5.34E-03	6.53E-04	0.00E+00	2.56E+00	0.00E+00	0.00E+00	2.81E-04	0.00E+00	4.66E-02	0.00E+00	5.34E-03
PENRE	MJ, vcn	2.24E+00	2.66E-01	0.00E+00	6.35E+00	0.00E+00	0.00E+00	1.14E-01	0.00E+00	9.93E-01	0.00E+00	2.24E+00
PENRM*	MJ, vcn	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
PENRT	MJ, vcn	2.24E+00	2.66E-01	0.00E+00	6.35E+00	0.00E+00	0.00E+00	1.14E-01	0.00E+00	9.93E-01	0.00E+00	2.24E+00
YE	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, vcn	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

Results per declared unit (1 m ²)												
Indicator	Unit	A1-A3	A4	A5	B1	B2	B3-B7	C1	C2	C3	C4	D
NRSF	MJ, vcn	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	4.31E-05	5.14E-06	0.00E+00	2.77E-03	0.00E+00	0.00E+00	2.22E-06	0.00E+00	2.94E-04	0.00E+00	4.31E-05

PERE: Use of renewable primary energy as energy carrier; **PERM:** Use of renewable primary energy resources used as raw material; **PERT:** Total use of renewable primary energy; **PENRE:** Use of non-renewable primary energy as energy carrier; **PENRM:** Use of non-renewable primary energy resources used as raw materials; **PENRT:** Total use of non-renewable primary energy; **SM:** Use of secondary materials; **RSF:** Use of renewable secondary fuels; **NRSF:** Use of non-renewable secondary fuels; **FW:** Net use of running water resources.

** Energy used as raw material is declared according to option B of PCR 2019:14 – the indicator of energy used as raw material reflects the energy used as raw material in product and packaging and is not subsequently transferred in a useful form to another product system.*

Waste indicators

Results per declared unit (1 m ²)												
Indicator	Unit	A1-A3	A4	A5	B1	B2	B3-B7	C1	C2	C3	C4	D
HWD	kg	8.04E+00	1.44E-05	1.77E-06	0.00E+00	1.30E-05	0.00E+00	0.00E+00	7.61E-07	0.00E+00	2.93E-05	0.00E+00
NHWD	kg	3.79E-01	7.11E-05	8.93E-06	0.00E+00	3.03E-04	0.00E+00	0.00E+00	3.85E-06	0.00E+00	5.73E-01	0.00E+00
RWD	kg	4.74E-03	1.30E-07	1.60E-08	0.00E+00	5.49E-05	0.00E+00	0.00E+00	6.91E-09	0.00E+00	1.35E-06	0.00E+00

HWD: Hazardous waste disposed; **NHWD:** Non-hazardous waste disposed; **RWD:** Radioactive waste disposed.

Output flow indicators

Results per declared unit (1 m ²)												
Indicator	Unit	A1-A3	A4	A5	B1	B2	B3-B7	C1	C2	C3	C4	D
CRU	kg	0.00E+00	0.00E+00	4.78E-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
MFR	kg	1.67E+00	0.00E+00	8.04E-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
MER	kg	0.00E+00	0.00E+00	9.04E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EEE	MJ	0.00E+00	0.00E+00	1.15E-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
EET	MJ	0.00E+00	0.00E+00	1.55E+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

CRU: Components for re-use; **MFR:** Materials for recycling; **MER:** Materials for energy recovery; **EEE:** Exported electrical energy; **EET:** Exported thermal energy.

Additional end-of-life scenarios

The following tables show the environmental impact of the final stages of service life, if 100% of 1 m² of product is sent landfill (normal scenario), to energy recovery or to recycling (less likely scenario).

End-of-life scenario with 100% landfill (regular scenario) (per declared unit)						
Indicator	Unit	C1	C2	C3	C4	D
GWP-GHG*	kg CO ₂ eq	0.00E+00	8.61E-03	0.00E+00	2.14E-01	0.00E+00
GWP-total	kg CO ₂ eq	0.00E+00	8.61E-03	0.00E+00	2.14E-01	0.00E+00
GWP- fossil	kg CO ₂ eq	0.00E+00	8.61E-03	0.00E+00	2.14E-01	0.00E+00
GWP- biogenic	kg CO ₂ eq	0.00E+00	2.99E-07	0.00E+00	5.01E-05	0.00E+00
GWP- luluc	kg CO ₂ eq	0.00E+00	1.36E-07	0.00E+00	2.72E-05	0.00E+00
ODP	kg CFC-11 eq	0.00E+00	1.96E-10	0.00E+00	2.14E-09	0.00E+00
AP	mol H ⁺ eq	0.00E+00	2.22E-05	0.00E+00	2.14E-04	0.00E+00
EP- freshwater	kg P eq	0.00E+00	5.32E-09	0.00E+00	4.76E-06	0.00E+00
EP-marine	kg N eq	0.00E+00	8.47E-06	0.00E+00	5.08E-05	0.00E+00
EP- terrestrial	mol N eq	0.00E+00	9.27E-05	0.00E+00	5.57E-04	0.00E+00
POCP	kg NMVOC eq	0.00E+00	3.68E-05	0.00E+00	2.27E-04	0.00E+00
ADP-minerals&metals ¹	kg Sb eq	0.00E+00	2.24E-10	0.00E+00	4.68E-09	0.00E+00
ADP-fossil ¹	MJ, v.c.n.	0.00E+00	1,14E-01	0.00E+00	9.93E-01	0.00E+00
WDP ¹	m ³ eq	0.00E+00	3.76E-05	0.00E+00	8.66E-03	0.00E+00

End-of-life scenario with 100% energy recovery (per declared unit)						
Indicator	Unit	C1	C2	C3	C4	D
GWP-GHG*	kg CO ₂ eq	0.00E+00	1.29E-02	1.52E+00	0.00E+00	-2.48E-02
GWP-total	kg CO ₂ eq	0.00E+00	1.29E-02	0.00E+00	0.00E+00	-2.58E-02
GWP- fossil	kg CO ₂ eq	0.00E+00	1.29E-02	1.52E+00	0.00E+00	-3.50E-02
GWP- biogenic	kg CO ₂ eq	0.00E+00	4.47E-07	3.56E-04	0.00E+00	1.01E-02
GWP- luluc	kg CO ₂ eq	0.00E+00	2.03E-07	1.94E-04	0.00E+00	5.21E-05
ODP	kg CFC-11 eq	0.00E+00	2.92E-10	1.51E-08	0.00E+00	-1.15E-08
AP	mol H ⁺ eq	0.00E+00	3.32E-05	1.44E-03	0.00E+00	-2.43E-04
EP- freshwater	kg P eq	0.00E+00	7.95E-09	3.40E-05	0.00E+00	1.14E-06
EP-marine	kg N eq	0.00E+00	1.27E-05	3.18E-04	0.00E+00	2.93E-05
EP- terrestrial	mol N eq	0.00E+00	1.38E-04	3.49E-03	0.00E+00	2.78E-04
POCP	kg NMVOC eq	0.00E+00	5.50E-05	1.48E-03	0.00E+00	-7.10E-04
ADP-minerals&metals ¹	kg Sb eq	0.00E+00	3.35E-10	3.30E-08	0.00E+00	5.80E-08
ADP-fossil ¹	MJ, v.c.n.	0.00E+00	1.71E-01	6.96E+00	0.00E+00	-6.36E+00
WDP ¹	m ³ eq	0.00E+00	5.62E-05	6.18E-02	0.00E+00	4.43E-03

End-of-life scenario with 100% recycling (less likely) (per declared unit)						
Indicator	Unit	C1	C2	C3	C4	D
GWP-GHG*	kg CO ₂ eq	0.00E+00	7.92E-03	1.22E-01	0.00E+00	-2.89E+00
GWP-total	kg CO ₂ eq	0.00E+00	7.92E-03	0.00E+00	0.00E+00	-2.89E+00
GWP- fossil	kg CO ₂ eq	0.00E+00	7.92E-03	1.22E-01	0.00E+00	-2.90E+00
GWP- biogenic	kg CO ₂ eq	0.00E+00	2.75E-07	1.12E-04	0.00E+00	9.35E-03
GWP- luluc	kg CO ₂ eq	0.00E+00	1.25E-07	1.41E-04	0.00E+00	-6.94E-04
ODP	kg CFC-11 eq	0.00E+00	1.80E-10	7.46E-10	0.00E+00	-5.86E-08
AP	mol H ⁺ eq	0.00E+00	2.04E-05	2.47E-04	0.00E+00	-1.60E-02
EP- freshwater	kg P eq	0.00E+00	4.89E-09	4.67E-06	0.00E+00	-6.79E-05
EP-marine	kg N eq	0.00E+00	7.79E-06	4.09E-05	0.00E+00	-2.22E-03
EP- terrestrial	mol N eq	0.00E+00	8.52E-05	4.44E-04	0.00E+00	-4.07E-02
POCP	kg NMVOC eq	0.00E+00	3.38E-05	1.39E-04	0.00E+00	-9.03E-03
ADP-minerals&metals ¹	kg Sb eq	0.00E+00	2.06E-10	3.79E-09	0.00E+00	-6.28E-07
ADP-fossil ¹	MJ, v.c.n.	0.00E+00	1.05E-01	1.13E+00	0.00E+00	-4.95E+01
WDP ¹	m ³ eq	0.00E+00	3.46E-05	8.91E-03	0.00E+00	-3.64E+00

GWP-GHG: Global warming potential excluding biogenic carbon; **GWP - total:** Global warming potential - total; **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, freshwater; **EP- marine:** Eutrophication potential, marine; **EP- terrestrial:** Eutrophication potential, terrestrial; **POCP:** Photochemical ozone creation potential; **ADP-minerals & metals:** Abiotic depletion potential - non-fossil resources; **ADP- fossil:** Abiotic depletion potential - fossil resources; **WDP: Water (use)** deprivation potential.



Additional environmental information

By-products

The production of ISINAC sound-absorbing foam panels upholstered with Camira Lucia CS fabric (ILUCS) does not generate co-products.

Indoor air emissions

The manufacturer states that the sound-absorbing foam panels upholstered with Camira Lucia CS fabric (ILUCS) do not generate significant indoor air emissions during their service life.

Emissions to soil and water

The manufacturer states that the sound-absorbing foam panels upholstered with Camira Lucia CS fabric (ILUCS) do not generate emissions to the ground or water during their service life.

ABBREVIATIONS

Abbreviation	Definition
EN	European Norm (Standard)
EF	Environmental Footprint
GPI	General Program Instructions
ISO	International Organization for Standardization
CEN	European Committee for Standardization
SVHC	Substances of Very High Concern
ND	Not Declared
EPD	Environmental Product Declaration
ES	Spain
PT	Portugal
GLO	Global
LCA	Life Cycle Analysis
PCR	Product Category Rules
DQR	Data Quality Rating
PP	Polypropylene
HDPE	High density polyethylene
LLDPE	Linear low density polyethylene
CNMC	National Commission for Markets and Competition

REFERENCES

- C-PCR-014 TO PCR 2019:14 - ACOUSTICAL CEILING AND WALL SOLUTIONS v1.0.1 DATE 2026-07-02, VALID UNTIL 2027-07-28
- UNE-EN 15804:2012+A2:2019/AC:2021. Sustainability of construction works. Environmental product declarations. Core rules for the product category of construction products.
- UNE-EN ISO 14025:2010 Standard. Environmental labels and declarations. Type III environmental declarations. Principles and procedures. (ISO 14025:2006).
- Standard UNE-EN ISO 14040:2006/A1:2021. Environmental Management. Life Cycle Assessment. Principles and framework. Amendment 1. (ISO 14040:2006/ Amd 1:2020).
- Standard UNE-EN ISO 14044:2006/A1:2021. Environmental Management. Life cycle assessment. Requirements and guidelines. Amendment 2. (ISO 14044:2006/ Amd 2:2020).
- COMMISSION RECOMMENDATION (EU) 2021/2279 of 15 December 2021 on the use of the Environmental Footprint methods to measure and communicate the life cycle environmental performance of products and organisations.
- General Programme Instructions (GPI) for the International EPD System, version 5.0.1.
- EPD SCS-EPD-08784 - Camira fabrics Lucia CS (ILUCS) – SCS Global Services.
- Databases and environmental impact methodologies applied using SimaPro 10.4.0.0 software.

VERSION HISTORY

Original version of the EPD, 2026-08-06.



INTERNATIONAL EPD SYSTEM

www.environdec.com