



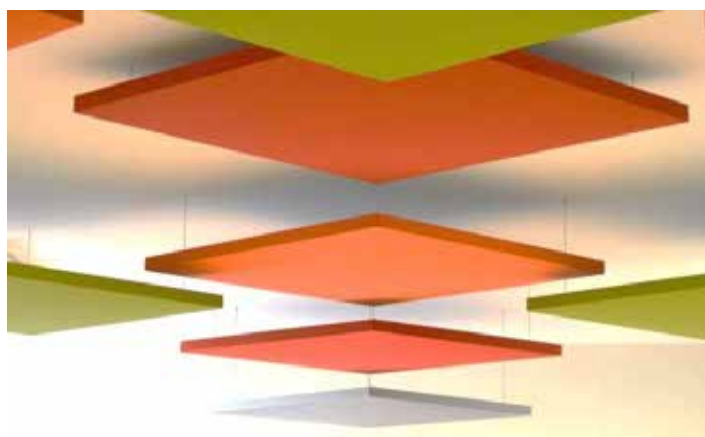
ENVIRONMENTAL AND HEALTH PRODUCT DECLARATION

FICHE DE DECLARATION ENVIRONNEMENTALE ET SANITAIRE

Stereo acoustic panels (with installation accessories)

In accordance with standards NF EN ISO 14025,
NF EN 15804+A2 and its national French addition NF EN 15804+A2/CN

Individual EHPD
January 2026



EHPD version : 1.0
INIES registration number : 20260148509



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1. Warning

The information contained in this declaration is provided under the responsibility of the company "TEXAA" (producer of the EHPD) in accordance with NF EN 15804+A2 and the national supplement NF EN 15804+A2/CN.

Any use, in whole or in part, of the information provided in this document must be accompanied by a complete reference to the original EHPD and its producer, who can provide a complete copy.

It should be noted that the results of the study are based solely on facts, circumstances, and assumptions that were submitted during the study. If these facts, circumstances, and assumptions differ, the results are likely to change.

Furthermore, the results of the study should be considered as a whole, in light of the assumptions, and not taken in isolation.

The CEN standard EN 15804+A2 serves as the Rules for the Definition of Product Categories (RCP).

NOTE: 'EPD' is more commonly used than 'EHPD' in English to refer to an Environmental Product Declaration. The literal translation of 'EPD' (Environmental Product Declaration) into French is 'DEP' (Déclaration Environnementale de Produit). However, in France, the term FDES (Fiche de Déclaration Environnementale et Sanitaire) is more common because it combines environmental and health information about the product. Therefore, the FDES is an EPD supplemented by health information, which becomes an EHPD in English.

2. Reading guide

The display of inventory data complies with the requirements of the NF EN 15804+A1 standard. In the following tables 2.53E-06 should be read: 2.53×10^{-6} (scientific writing).

The units used are specified in front of each flow, they are:

- the kilogram "kg",
- the cubic metre "m³",
- the kilowatt-hour "kWh",
- the megajoule "MJ",
- the square meter "m²".

Abbreviations:

- EHPD : Environmental and Health Product Declaration
- LCA: Life Cycle Assessment
- RSL : Reference Service Life
- FU: Functional Unit
- CV : Calorific Value

3. Precautions for using the EHPD in product comparisons

EHPD for construction products are not comparable if they do not comply with standard NF EN 15804+A2.

Standard NF EN 15804+A2 defines in § 5.3 Comparability of EHPD for construction products, the conditions under which construction products can be compared, based on the information provided by the EHPD :

“Therefore, a comparison of the environmental performance of construction products using EHPD information must be based on the use of the products and their impact on the building, and must take into account the entire life cycle (all information modules).”

NOTE 1: Outside the framework of a building's environmental assessment, EHPD are not tools for comparing construction products and services.

NOTE 2: To assess the contribution of buildings to sustainable development, a comparison of environmental aspects and impacts must be undertaken in conjunction with the socio-economic aspects and impacts relating to the building.

NOTE 3: Reference values are necessary for interpreting a comparison.

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4. Introduction

The framework used for the presentation of the environmental product declaration is based on the national supplement NF EN 15804+A2/CN and the INIES program.

A report accompanying the declaration has been drawn up and can be consulted, subject to a confidentiality agreement, at the headquarters of "TEXAA".

The information contained in this declaration is provided under the responsibility of "TEXAA".

The purpose of this study is to register this EHPD in the INIES database.

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5. General information

1. Name and address of the declarant: TEXAA – 43 ALLEE DE MEGEVIE - 33174 GRADIGNAN

2. Site(s), manufacturer or group of manufacturers, or their representatives for which the EHPD is representative:
TEXAA – 43 ALLEE DE MEGEVIE - 33174 GRADIGNAN

3. Type of EHPD: "cradle to grave"

4. Type of EHPD: Individual

5. Expiration date: 26/01/2031

6. Verification program used, name and address of the program operator, logo and website:

The CEN standard EN 15804 serves as a rule for the product category.
Independent verification of the declaration in accordance with EN ISO 14025:2010 ☐ Internal ☒ External
Third-party verification: M. LEES-PERASSO Étienne Phone: +33 (0)6 01 77 97 20 Email: elp@tide-env.fr LinkedIn: https://www.linkedin.com/company/tide-env/
INIES program registration number compliant with ISO 14025: 20260148509
Date of first publication : 26/01/2026
Update date (specify whether minor or major update): --
Date of verification : 26/01/2026

Period of validity: ☒ 5 years ☐ 2 years from the date of first publication	
	INIES Program Avenue du recteur Poincaré 75016 Paris– France - www.inies.fr

5. Commercial reference / product identification: Stereo acoustic panels

6. Distribution channels: BtoB, BtoC

6. Description of the functional unit and the product

1. **Description of the functional unit (or declared unit):** « Ensure acoustic and visual comfort on 1 m² of panel with a sound absorption coefficient $\alpha_w = 1$ on plasterboard and contributing to the decoration of the premises, based on a reference lifespan of 50 years. »

2. **Product description :** Suspended from the ceiling by cables or attached to its support, the product consists of a metal frame into which absorbent wadding is inserted, covered with a microporous veil and an Aeria® fabric cover.

(*) Aeria® : name of the transonore fabric, based on an exclusive Texaa® patent.

3. **Description of product use (area of application):** sound absorption in a reverberant room.

4. **Proof of suitability for use:** Product tested in accordance with ISO 354:2003 (Acoustics – Measurement of sound absorption in reverberation rooms) and NF EN 13501-1 (Fire classification of construction products and elements).

4. Other technical characteristics not included in the functional unit

Technical characteristics	Value	Unit
Mass	5,88	kg/m ²
Thickness	55 +/-1	mm
Abrasion resistance (NF EN 12947-2)	> 30 000	cycles
Light fastness (ISO 105-B02 – scale from 1 to 8)	≥ 5	—
Antistatic properties (ASTM D257)	3.10 ⁷	Ω / m ²
Reaction to fire classification (NF EN 13501-3)	B-s1, d0	—
Micro-organism development	The nature of the components prevents the development of mites and micro-organisms	
VOC and formaldehyde emissions (ISO 16000): French health labelling, German AgBB protocol and Indoor Air Comfort label	A+ / Compliant / Standard	

5. Description of the main components and/or materials of the product

Parameters		Material	Value [kg/m ²]
Components	Metal hoop	Steel	2.68E+00
	Sound absorber	Synthetic	1.93E+00
	Surface covering (Aeria®)	Synthetic	4.25E-01
	Microporous fabric	Synthetic	9.41E-02
	Attachment hardware	metal	5.86E-01
	Others		8.10E-02
Total mass of the finished product			5.79E+00
Packaging	Product protection film	Plastic	2.14E-02
	Cardboard	Cardboard	1.05E+00
	Wedge	Polystyrene	5.99E-03
	Protective interlayer	Plastic	1.40E-02
	Pallet corner protectors	Cardboard	6.43E-02
	Plastic film for pallets	Plastic	2.51E-02
	Pallets	Wood	1.00E+00
Total mass of packaging			2.18E+00
Installation waste rate	There is no waste from installation		
Maintenance waste rate	Not applicable		
Justification of the information provided	The information is provided by TEXAA		

6. Candidate list substances according to the REACH regulation (if above 0.1% by mass)

The product does not contain substances from the REACH candidate list above 0.1% by mass.

7. Description of the reference service life (in accordance with §7.2.2 of NF EN 15804+A2)

The reference service life complies with the recommendation in Annex H of the national supplement NF EN 15804+A2/CN.

Parameters	Value / Description
Reference service life	50 years
Theoretical application parameters	Work quality is assumed to comply with manufacturer recommendations
Presumed quality of work	
Outdoor environment	Not applicable
Indoor environment	Relative humidity: 30%–75%; Temperature: 10°–30°C
Conditions of use	Product use is assumed to comply with manufacturer recommendations
Maintenance	The manufacturer recommends vacuum cleaning once per year to ensure proper maintenance

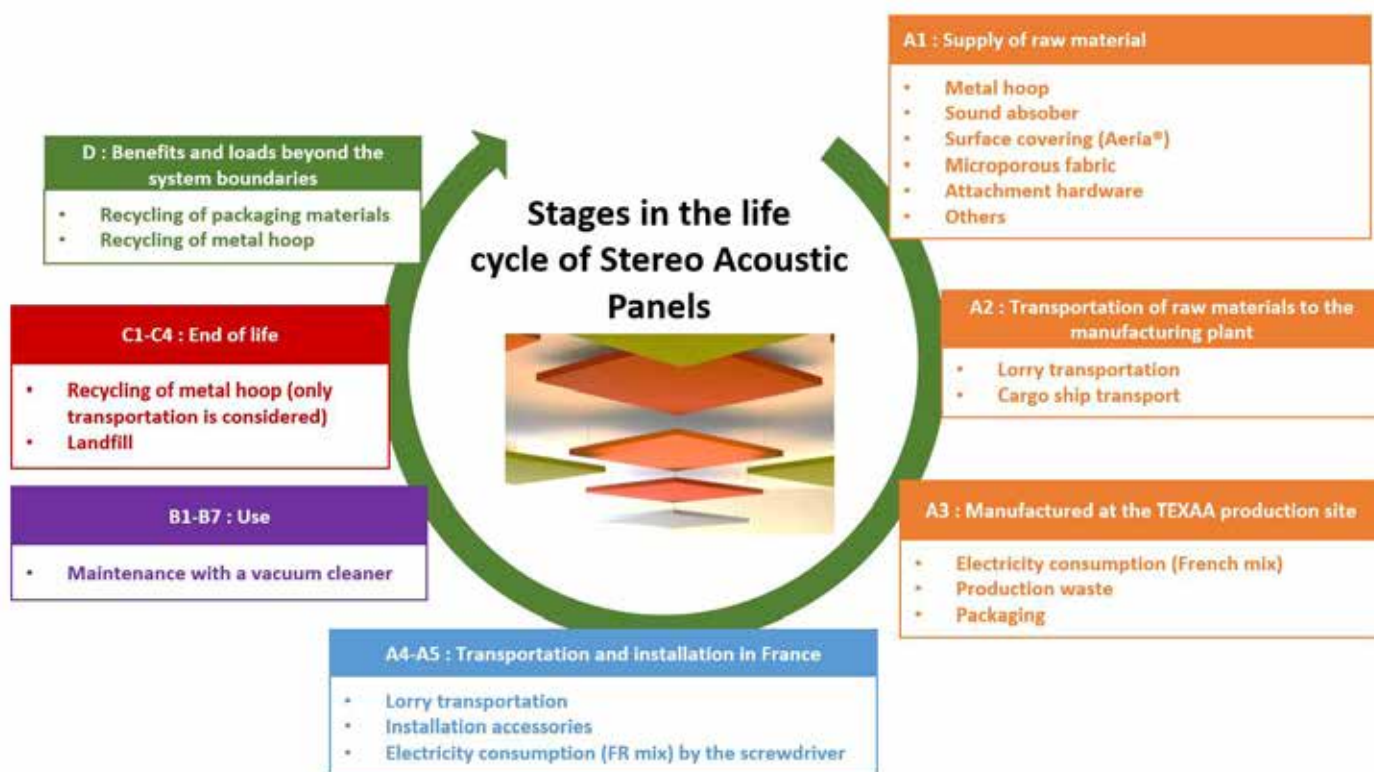
8. Biogenic carbon content

Biogenic carbon content	Value	Unit
Biogenic carbon content of the product	0,00E+00	kg C
Biogenic carbon content of associated packaging	4.84E-01	kg C

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

7. Life cycle stages

The life cycle of the product considered in this EHPD is described through the following modules, in accordance with NF EN 15804+A2 and its national supplement.



DESCRIPTION OF SYSTEM BOUNDARIES (X=INCLUDED IN LCA; UD=UNDECLARED MODULE)														
PRODUCT STAGE	CONSTRUCTION PROCESS STAGE		USE STAGE								END-OF-LIFE STAGE			BENEFITS AND LOADS BEYOND SYSTEM BOUNDARIES
Production	Transport to the site	Construction installation	Use	Maintenance	Repair	Replacement	Rehurbishment	Operational Energy Use	Operational Water Use	Demolition/Deconstruction	Transport	Waste processing	Disposal	Reuse, recovery, recycling, exported energy potential
A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

7.1 Production stage : A1-A3

The production stage includes sourcing the raw materials needed to manufacture the Stereo acoustic panel. This stage also takes into account the distance traveled between the raw material supplier and the product manufacturing site.

The TEXAA factory takes into account the following manufacturing stages:

- Knitting the Aeria® fabric
- Cutting and sewing the cover
- Cutting the acoustic absorber
- Folding the metal frame
- Riveting the frames
- Packaging

The electricity emission factor used is 7.93E-02 kg CO₂ equivalent per kWh.

For transport to the construction site, the product is individually wrapped in plastic film and placed in a cardboard box with polystyrene wedges and a divider between each product. The boxes are then placed on pallets and secured with cardboard corner protectors and plastic film strapping.

Note: the packaging of the main raw materials arriving at the manufacturing site are considered, as well as their end-of-life treatment. However, the packaging of the packaging materials is not considered (cut-off rule).

7.2 Construction stage : A4-A5

Transport to the construction site:

Parameter	Value/Description
Means of transport	Lorry, 16–32 tonnes
Emissions standard	EURO 6
Distance	544 km
Capacity utilization (mass)	36,25 %
Bulk density of transported products	Not applicable
Volume capacity utilization coefficient (coefficient: =1 or <1 or ≥1 for compressed or nested products)	1

Installation in the building :

Parameter	Value/Description
Auxiliary materials	Installation accessories (cable, steel hardware, and Nylon 6 anchors corresponding to the average mounting method desired by TEXAA customers for this type of product: suspended by cable, screwed to a support, etc.)
Water consumption	N/A
Energy consumption	-
Quantitative description of the type of energy (regional energy mix) and consumption during the installation process	6 screws per m ² of Stereo acoustic panel, which corresponds to 60 seconds of screwing and 0.005 kWh of French electricity consumption, with the screwdriver having a power of 300W.
Material waste on the construction site before treatment of waste generated by the installation of the product (specified by type)	Packaging waste = 2.18 kg/UF
Output materials (specified by type) produced by the treatment of waste on the construction site, e.g. collection for recycling, energy recovery, disposal (specified by route)	Paper and cardboard waste: 1.11 kg Cardboard and paper waste is treated at the end of its life in accordance with the INIES guide, ELYS Conseil, 2024. This equates to 88% recycling, 7% landfill and 5% incineration. Plastic waste: 0.06 kg Plastic waste is treated at the end of its life in accordance with the INIES guide, ELYS Conseil, 2024. 26% recycling, 48% incineration, 26% landfill Wooden pallet waste: 1.0 kg Wooden pallet waste is treated at the end of its life in accordance with the INIES guide, ELYS Conseil, 2024. This equates to 43% recycling, 49% incineration, and 8% landfill. Polystyrene waste: 0.006 kg 100% landfill
Direct emissions to ambient air, soil, and water	Not applicable

7.1 Use stage (excluding potential savings) : B1-B7

B1 Use

Parameter	Value/Description	Unit
Description of the scenario	More information on volatile pollutant emissions from the product covered by the EHPD is provided in paragraph 10.	-

B2 Maintenance

Parameter	Value/Description	Unit
Description of the scenario	The product is cleaned once a year using a vacuum cleaner, which is modeled based on electricity consumption and the use of a dust bag. The dust bag is then considered to be 50% landfilled and 50% incinerated at the end of its life. The machine will be reused many times and is therefore not taken into account in this study.	-
Maintenance frequency	Every year (one cycle)	year
Auxiliary inputs for maintenance	Vacuum cleaner bag: 0.035 kg/RSL	kg/RSL
Energy input during maintenance	15 seconds of operation of a 2000W vacuum cleaner to clean 1m ² once a year for 50 years. That is $2000 \times (15/3600) \times 50 = 417$ Wh	Wh/RSL
Waste produced during maintenance (specify materials)	Vacuum cleaner bag filled with dust: 0.085 kg	

For the remaining stages of the project (B3-B7), there are no other elements within the scope of the study.

7.1 End of life : C1-C4

Parameter	Value/Description	Unit
Description of the scenario	The Stereo acoustic panel is considered to be removed by hand. In this scenario, 99% of the steel metal frame will be recycled and the rest of the product will be non-hazardous waste disposed of in a landfill. In both cases, the distance considered is 50 km according to standard NF EN 15804+A2/CN.	-
Quantity intended for recovery	3.20	kg
Quantity intended for energy recovery	-	
Quantity disposed	2.69	kg/m ²

7.1 Potential for recycling/reuse/recovery : D

This module covers the potential for recovering packaging waste from module A5.

Materials outside the system boundaries	Recycling processes outside the system boundaries	Materials/ Energy saved	Amount associated in the product	Unit
Single-use wooden pallet packaging	Single-use wooden pallet packaging	Virgin wood chips (kg)	3.83E-01	kg
	Incineration with energy recovery	Grid electricity, FR, high voltage, geographical mix (MJ)	6.50E-01	MJ
	Incineration with energy recovery	Heat from natural gas (MJ)	3.69E+00	MJ
Paper and cardboard packaging	Recycling	Kraftliner cardboard (kg)	1.56E-01	kg
	Incineration with energy recovery	Grid electricity, FR, high voltage, geographical mix (MJ)	5.12E-02	MJ
	Incineration with energy recovery	Heat from natural gas (MJ)	3.90E-01	MJ
LDPE polyethylene packaging	Recycling	Virgin LDPE pellets (kg)	1.57E-02	kg
	Incineration with energy recovery	Grid electricity, FR, high voltage, geographical mix (MJ)	8.40E-02	MJ
	Incineration with energy recovery	Heat from natural gas (MJ)	6.40E-01	MJ
Steel of the metal hoop	Recycling	Low alloyed steel, produced in blast furnaces, Europe (kg)	3.20+00	kg

8. Information for calculating the Life Cycle Assessment

Product Category Rules (PCR) used	The standards NF EN 15804+A2 (October 2019) and NF EN 15804+A2/CN (October 2022) were applied.
System boundaries	The system boundaries comply with the limits set by the NF EN 15804+A2 standard and its national annex NF EN 15804+A2/CN. Cradle to gate with options: stages A1–A3, B2, C1–C4, and D.
Cut-off rules	All inputs and outputs for which Life Cycle Inventory (LCI) data are available in the Ecoinvent database were included in the product LCI, with the exception of certain raw material packaging, in accordance with the cut-off rule (neglected mass < 1% of total mass).
Allocation	No allocation was applied.
Geographical and temporal representativeness of primary and secondary data	<u>Geographical</u> Data were collected at the plant where the production phases take place: TEXAA – 43 Allée de Megévie – 33174 Gradignan, France. <u>Temporal</u> The collected data are representative of the current life cycle of the product. The main data used are representative of activity in 2024–2025. TEXAA provided the data in May 2025. Generic data originate from the Ecoinvent 3.11 database (“allocation cut-off by classification”), latest update available at the time of the study.
Software used	SimaPro life cycle assessment software (version 10.2). 

9. Life Cycle Assessment results

The table below presents the classification of liability exemptions for the declaration of reference and additional environmental impact indicators:

Classification ILCD	Indicator	Disclaimer
ILCD Type 1	Global warming potential (GWP)	None
	Stratospheric Ozone Depletion Potential (ODP)	None
	Potential incidence of diseases due to fine particulate matter emissions	None
ILCD Type 2	Acidification Potential, accumulated exceedance (AP)	None
	Eutrophication potential, fraction of nutrients reaching freshwater end compartment (EP-freshwater)	None
	Eutrophication potential, fraction of nutrients reaching marine end compartment (EP-marine)	None
	Terrestrial acidification potential (EP-terrestrial)	None
	Photochemical ozone formation potential (POCP)	None
	Potential human exposure efficiency to U235 isotope (PIR)	1
ILCD Type 3	Abiotic depletion potential – non-fossil resources (ADP-minerals & metals)	2
	Abiotic depletion potential – fossil resources (ADP-fossil)	2
	Water deprivation potential (users), deprivation-weighted water consumption (WDP)	2
	Comparative toxic unit for ecosystems (ETP-fw)	2
	Comparative toxic unit for humans (HTP-c)	2
	Comparative toxic unit for humans (HTP-nc)	2
	Soil quality potential index (SQP)	2
Disclaimer [1] – This impact category mainly concerns the potential impact on human health of low-dose ionizing radiation from the nuclear fuel cycle. It does not consider the consequences of potential nuclear accidents, occupational exposure, or radioactive waste disposal in underground facilities. Potential ionizing radiation originating from soil, radon, and certain construction materials is also not measured by this indicator.		
Disclaimer [2] - The results of this environmental impact indicator shall be used with caution, as uncertainties associated with these results are high or experience related to this indicator is limited.		

	Production stage			Construction stage		Use stage							End-of-life stage				D Benefits and loads beyond the system boundaries A2 Transport
	A1 Raw material supply	A2 Transport	A3 Manufacturing	A4 Transport	A5 Installation	A1 Raw material supply	A2 Transport	A3 Manufacturing	A4 Transport	A5 Installation	A1 Raw material supply	A2 Transport	A3 Manufacturing	A4 Transport	A5 Installation	A1 Raw material supply	
ENVIRONMENTAL IMPACT																	
Climate change – total kg CO ₂ eq/FU	2,24E+01	3,09E-01	-1,43E+00	6,82E-01	3,91E+00	0	2,01E-01	0	0	0	0	0	0,00E+00	7,01E-03	5,02E-02	4,28E-01	-4,62E+00
Climate change – fossil fuels kg CO ₂ eq/FU	2,25E+01	3,09E-01	1,14E+00	6,82E-01	4,24E-01	0	2,01E-01	0	0	0	0	0	0,00E+00	7,01E-03	5,01E-02	4,29E-01	-4,58E+00
Climate change – biogenic kg CO ₂ eq/FU	-1,27E-01	1,33E-05	-2,58E+00	2,93E-05	3,49E+00	0	1,86E-04	0	0	0	0	0	0,00E+00	3,01E-07	3,48E-05	-9,99E-09	-4,39E-02
Climate change – land use and land use change kg CO ₂ eq/FU	2,14E-02	4,76E-06	9,86E-03	1,05E-05	4,51E-04	0	1,19E-04	0	0	0	0	0	0,00E+00	1,08E-07	6,10E-05	1,33E-05	1,65E-04
Ozone depletion kg CFC 11 eq/FU	2,50E-08	7,38E-11	-5,23E-09	1,63E-10	8,61E-09	0	2,63E-10	0	0	0	0	0	0,00E+00	1,68E-12	1,33E-11	1,26E-11	-7,63E-08
Acidification mol H+ eq/FU	8,86E-02	3,74E-04	4,15E-03	1,72E-03	2,09E-03	0	5,52E-04	0	0	0	0	0	0,00E+00	8,49E-06	3,73E-04	5,43E-04	-2,75E-02
Eutrophication, freshwater kg P eq/FU	9,95E-03	1,55E-06	5,71E-04	3,42E-06	1,39E-04	0	3,78E-05	0	0	0	0	0	0,00E+00	3,52E-08	1,02E-05	1,73E-04	-2,08E-03
Eutrophication, marine kg N eq/FU	2,12E-02	8,44E-05	2,60E-03	6,55E-04	7,02E-04	0	3,42E-04	0	0	0	0	0	0,00E+00	1,92E-06	1,59E-04	7,58E-03	-6,23E-03
Eutrophication, terrestrial Mol N eq/FU	1,92E-01	9,17E-04	1,82E-02	7,15E-03	6,30E-03	0	1,37E-03	0	0	0	0	0	0,00E+00	2,08E-05	1,72E-03	1,75E-03	-6,84E-02
Photochemical ozone formation kg NMCOV eq/FU	7,29E-02	7,34E-04	5,67E-03	2,84E-03	1,72E-03	0	6,68E-04	0	0	0	0	0	0,00E+00	1,67E-05	5,17E-04	6,70E-04	-2,08E-02
Abiotic resource depletion – elements kg Sb eq/FU	9,48E-05	7,89E-09	1,40E-06	1,74E-08	1,54E-06	0	2,40E-08	0	0	0	0	0	0,00E+00	1,79E-10	2,46E-09	7,53E-09	-2,74E-05

Abiotic resource depletion – fossil fuels MJ /FU	1,46E+02	2,68E-02	3,87E+00	5,92E-02	3,00E+00	0	4,93E+00	0	0	0	0	0	0,00E+00	6,09E-04	1,93E-01	2,79E-01	-3,49E+01
Water deprivation m3 deprivation /FU	7,82E+00	1,33E-03	6,91E-01	2,93E-03	7,14E-02	0	3,37E-02	0	0	0	0	0	0,00E+00	3,01E-05	2,67E-03	-1,34E-02	-5,74E-01
ENVIRONMENTAL ADDITIONNAL IMPACT																	
Fine particulate matter emissions disease increased/FU	1,12E-06	1,81E-08	4,10E-08	4,43E-08	3,21E-08	0	6,54E-09	0	0	0	0	0	0,00E+00	4,11E-10	9,03E-09	5,96E-09	-3,08E-07
Ionizing radiation (human health) kBq de U-235 eq/FU	2,95E+00	1,01E-03	1,62E-01	2,22E-03	3,24E-02	0	2,20E-01	0	0	0	0	0	0,00E+00	2,29E-05	7,06E-03	1,26E-02	7,41E-02
Freshwater ecotoxicity CTUe/FU	1,63E+02	1,66E-01	1,14E+01	3,64E-01	8,46E+00	0	1,94E+00	0	0	0	0	0	0,00E+00	3,78E-03	1,54E-01	2,56E+01	-5,42E+01
Human toxicity – cancer effects CTUh/FU	1,11E-08	9,79E-12	1,42E-09	2,55E-11	4,04E-10	0	2,02E-11	0	0	0	0	0	0,00E+00	2,22E-13	2,64E-12	1,12E-11	-3,32E-09
Human toxicity – non-cancer effects CTUh/FU	2,08E-07	4,91E-10	1,27E-08	1,46E-09	2,28E-08	0	3,35E-09	0	0	0	0	0	0,00E+00	1,11E-11	1,54E-10	1,32E-07	-9,28E-08
Land use impacts & Soil quality point /FU	6,20E+01	5,09E-03	1,47E+02	1,12E-02	1,05E+00	0	2,24E-01	0	0	0	0	0	0,00E+00	1,16E-04	3,19E-02	1,47E+00	-3,53E+01

	Production stage			Construction stage		Use stage							End-of-life stage				D Benefits and loads beyond the system boundaries
	A1 Raw material supply	A2 Transport	A3 Manufacturing	A4 Transport	A5 Installation	B1 Use	B2 Maintenance	B3 Repair	B4 Replacement	B5 Refurbishment	B6 Operational energy use	B7 Operational water use	C1 Deconstruction / demolition	C2 Transport	C3 Waste processing	C4 Disposal	
RESSOURCE USE																	
Use of renewable primary energy resources, excluding renewable primary energy resources used as raw materials MJ, net CV / FU	3,52E+01	9,99E-03	3,04E+01	2,20E-02	8,70E+00	0	5,41E-01	0	0	0	0	0	0,00E+00	2,27E-04	5,63E-02	2,67E-02	-5,43E+00
Use of renewable primary energy resources used as raw materials MJ, net CV / FU	-6,63E-01	0,00E+00	-3,31E+00	0,00E+00	-2,76E+01	0	0,00E+00	0	0	0	0	0	0,00E+00	0,00E+00	0,00E+00	0,00E+00	-2,59E+00
Total use of renewable primary energy resources MJ, net CV / FU	3,45E+01	9,99E-03	2,71E+01	2,20E-02	-1,89E+01	0	5,41E-01	0	0	0	0	0	0,00E+00	2,27E-04	5,63E-02	2,67E-02	-8,02E+00
Use of non-renewable primary energy resources, excluding non- renewable primary energy resources used as raw materials MJ, net CV / FU	1,46E+02	2,66E-02	3,30E+00	5,86E-02	4,19E+00	0	4,93E+00	0	0	0	0	0	0,00E+00	6,04E-04	1,91E-01	2,78E-01	-3,45E+01
Use of non-renewable primary energy resources used as raw materials MJ, net CV / FU	-1,08E+00	0,00E+00	-1,98E-01	0,00E+00	-1,83E+00	0	0,00E+00	0	0	0	0	0	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Total use of non-renewable primary energy resources MJ, net CV / FU	1,45E+02	2,66E-02	3,10E+00	5,86E-02	2,35E+00	0	4,93E+00	0	0	0	0	0	0,00E+00	6,04E-04	1,91E-01	2,78E-01	-3,45E+01
Use of secondary materials kg/FU	9,14E-04	0,00E+00	7,94E-02	0,00E+00	0,00E+00	0	0,00E+00	0	0	0	0	0	0,00E+00	0,00E+00	0,00E+00	0,00E+00	8,11E-01
Use of renewable secondary fuels MJ, net CV / FU	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0	0,00E+00	0	0	0	0	0	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Use of non-renewable secondary fuels MJ, net CV / FU	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0	0,00E+00	0	0	0	0	0	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Net use of fresh water m3 /FU	2,23E-01	7,71E-05	2,06E-02	1,70E-04	2,18E-03	0	1,74E-03	0	0	0	0	0	0,00E+00	1,75E-06	1,61E-04	-5,24E-03	-1,94E-02

		Production stage			Construction stage		Use stage							End-of-life stage				D Benefits and loads beyond the system boundaries
		A1 Raw material supply	A2 Transport	A3 Manufacturing	A4 Transport	A5 Installation	B1 Use	B2 Maintenance	B3 Repair	B4 Replacement	B5 Refurbishment	B6 Operational energy use	B7 Operational water use	C1 Deconstruction / demolition	C2 Transport	C3 Waste processing	C4 Disposal	
WASTE CATEGORIES																		
Déchets dangereux éliminés kg/UF		2,30E-01	3,45E-05	1,27E-02	7,61E-05	7,52E-03	0	2,41E-02	0	0	0	0	0	0,00E+00	7,84E-07	1,32E-05	4,93E-04	1,46E-02
Déchets non dangereux éliminés kg/UF		1,68E+01	9,98E-04	1,84E-01	2,20E-03	5,13E-01	0	1,29E-01	0	0	0	0	0	0,00E+00	2,27E-05	2,92E-03	2,70E+00	-6,07E+00
Déchets radioactifs éliminés kg/UF		7,61E-04	2,42E-07	3,86E-05	5,33E-07	1,43E-05	0	6,29E-05	0	0	0	0	0	0,00E+00	5,49E-09	1,81E-06	3,60E-06	-1,50E-05
OUTFLOW																		
Composants destinés à la réutilisation		0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0	0,00E+00	0	0	0	0	0	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Matériaux destinés au recyclage		4,24E-02	0,00E+00	1,00E-01	0,00E+00	1,43E+00	0	0,00E+00	0	0	0	0	0	0,00E+00	0,00E+00	0,00E+00	0,00E+00	-4,30E-01
Matériaux destinés à la récupération d'énergie		0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0	0,00E+00	0	0	0	0	0	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Energie fournie à l'extérieur (par vecteur énergétique)	Electricité	5,58E-02	0,00E+00	1,42E-02	0,00E+00	3,45E-01	0	0,00E+00	0	0	0	0	0	0,00E+00	0,00E+00	0,00E+00	0,00E+00	-2,10E-01
	Vapeur	5,17E-01	0,00E+00	1,08E-01	0,00E+00	6,24E+00	0	0,00E+00	0	0	0	0	0	0,00E+00	0,00E+00	0,00E+00	0,00E+00	-5,21E+00
	Gaz de process	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0	0,00E+00	0	0	0	0	0	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00

Impact category / flow	Unit	Total Production	Total Implementation	Total Life Cycle	Total End of Life	Total Cycle de vie	D Benefits and costs beyond the boundaries of the system
ENVIRONNEMENTAL IMPACTS							
Climate change – total	kg CO ₂ eq/FU	2,24E+01	4,59E+00	2,01E-01	5,24E-01	2,77E+01	-4,62E+00
Climate change – fossil fuels	kg CO ₂ eq/FU	2,25E+01	1,11E+00	2,01E-01	5,24E-01	2,44E+01	-4,58E+00
Climate change – biogenic	kg CO ₂ eq/FU	-1,27E-01	3,49E+00	1,86E-04	3,67E-05	3,36E+00	-4,39E-02
Climate change – land use and land use change	kg CO ₂ eq/FU	2,14E-02	4,62E-04	1,19E-04	7,50E-05	2,20E-02	1,65E-04
Ozone depletion	kg CFC 11 eq/FU	2,50E-08	8,77E-09	2,63E-10	3,67E-11	3,41E-08	-7,63E-08
Acidification	Mol H ⁺ eq/FU	8,86E-02	3,80E-03	5,52E-04	9,71E-04	9,40E-02	-2,75E-02
Eutrophication, freshwater	Mol P eq/FU	9,95E-03	1,42E-04	3,78E-05	1,83E-04	1,03E-02	-2,08E-03
Eutrophication, marine	kg N eq/FU	2,12E-02	1,36E-03	3,42E-04	7,76E-03	3,07E-02	-6,23E-03
Eutrophication, terrestrial	Mol N eq/FU	1,92E-01	1,35E-02	1,37E-03	3,61E-03	2,10E-01	-6,84E-02
Photochemical ozone formation	kg NMVOC eq/FU	7,29E-02	4,56E-03	6,68E-04	1,29E-03	7,95E-02	-2,08E-02
Abiotic resource depletion – elements	kg Sb eq/FU	9,48E-05	1,55E-06	2,40E-08	1,11E-08	9,63E-05	-2,74E-05
Abiotic resource depletion – fossil fuels	MJ CV /FU	1,46E+02	3,06E+00	4,93E+00	4,75E-01	1,55E+02	-3,49E+01
Water deprivation	m3 deprivation of water /FU	7,82E+00	7,43E-02	3,37E-02	-1,06E-02	7,92E+00	-5,74E-01
OPTIONNAL INDICATOR							
Fine particulate matter emissions	Disease inc. /FU	1,12E-06	7,64E-08	6,54E-09	1,76E-08	1,22E-06	-3,08E-07
Ionizing radiation (human health)	kBq de U-235 eq /FU	2,95E+00	3,46E-02	2,20E-01	1,98E-02	3,23E+00	7,41E-02
Freshwater ecotoxicity	CTUe/FU	1,63E+02	8,83E+00	1,94E+00	2,58E+01	2,00E+02	-5,42E+01
Human toxicity – cancer effects	CTUh/FU	1,11E-08	4,30E-10	2,02E-11	1,53E-11	1,15E-08	-3,32E-09
Human toxicity – non-cancer effects	CTUh/FU	2,08E-07	2,43E-08	3,35E-09	1,32E-07	3,68E-07	-9,28E-08
Land use impacts / Soil quality	Dimensionless (Point) /FU	6,20E+01	1,06E+00	2,24E-01	1,50E+00	6,48E+01	-3,53E+01
RESSOURCE CONSUMPTION							
Use of renewable primary energy resources, excluding renewable primary energy resources used as raw materials	MJ CV /FU	3,52E+01	8,72E+00	5,41E-01	8,45E-02	4,45E+01	-5,43E+00
Use of renewable primary energy resources used as raw materials	MJ CV /FU	-6,63E-01	-2,76E+01	0,00E+00	0,00E+00	-2,83E+01	-2,59E+00
Total use of renewable primary energy resources	MJ CV /FU	3,45E+01	-1,89E+01	5,41E-01	8,45E-02	1,63E+01	-8,02E+00
Use of non-renewable primary energy resources, excluding non-renewable primary energy resources used as raw materials	MJ CV /FU	1,46E+02	4,24E+00	4,93E+00	4,73E-01	1,56E+02	-3,45E+01
Use of non-renewable primary energy resources used as raw materials	MJ CV /FU	-1,08E+00	-1,83E+00	0,00E+00	0,00E+00	-2,91E+00	0,00E+00
Total use of non-renewable primary energy resources	MJ CV /FU	1,45E+02	2,41E+00	4,93E+00	4,73E-01	1,53E+02	-3,45E+01

Use of secondary materials	kg/FU	9,14E-04	0,00E+00	0,00E+00	0,00E+00	9,14E-04	8,11E-01
Use of renewable secondary fuels	MJ CV /FU	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Use of non-renewable secondary fuels	MJ CV /FU	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Net use of fresh water	m³/FU	2,23E-01	2,35E-03	1,74E-03	-5,07E-03	2,22E-01	-1,94E-02
WASTE CATEGORIES							
Hazardous waste disposed	kg/FU	2,30E-01	7,60E-03	2,41E-02	5,12E-04	2,63E-01	1,46E-02
Non-hazardous waste disposed	kg/FU	1,68E+01	5,15E-01	1,29E-01	2,70E+00	2,02E+01	-6,07E+00
Radioactive waste disposed	kg/FU	7,61E-04	1,49E-05	6,29E-05	5,44E-06	8,45E-04	-1,50E-05
OUTFLOW							
Components for reuse	kg/FU	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Materials for recycling	kg/FU	4,24E-02	1,43E+00	0,00E+00	0,00E+00	1,47E+00	-4,30E-01
Materials for energy recovery	kg/FU	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Exported energy – electricity	MJ/FU	5,58E-02	3,45E-01	0,00E+00	0,00E+00	4,01E-01	-2,10E-01
Exported energy – steam	MJ/FU	5,17E-01	6,24E+00	0,00E+00	0,00E+00	6,76E+00	-5,21E+00
Exported energy – process gas	MJ/FU	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00

Table of life cycle assessment results displayed in accordance with Decree No. 2013-1264 of December 23, 2013¹

¹ Decree No. 2013-1264 of December 23, 2013 on the environmental declaration of certain construction products intended for use in building works

10. Additional information on the release of hazardous substances into indoor air, soil, and water during the period of use

	Potentially emitted substances/gases/radiation	Test results	Justification and/or test report
Indoor air emissions ^{1 2}	VOC and formaldehyde emissions		Stereo acoustic panel acoustic cladding has been tested in accordance with ISO 16000 to determine its VOC and formaldehyde content. It has been awarded an A+ rating under French health labeling standards, complies with the German AgBB protocol, and has been awarded the Indoor Air Comfort label. Report N° 392-2019-00163101_B_FR_TEXAA_IAC EU.
	Behavior in response to fungal and bacterial growth	No tests have been performed.	-
	Natural radioactive emissions from construction products	No tests have been performed.	-
	Fiber and particle emissions	No tests have been performed.	-
Emissions into soil and water ^{1 2}	Emissions in water	Not applicable. The material does not come into contact with water intended for human consumption, runoff water, seepage water, groundwater, or surface water.	-
	Emissions into the soil	The material is not in direct contact with the ground.	-

1) Emissions to indoor air, soil, and water according to Horizontal Standards for the measurement of emissions of regulated hazardous substances from construction products, using harmonized test methods in accordance with the provisions of the respective Technical Committees of the European Product Standards, where available.

For more information, refer to the EeB Guide: <http://www.eebguide.eu/?p=1991>

2) In France, the INIES Base technical committee (CTIB) provides recommendations on the declaration of health and comfort characteristics - Guide to drafting health and comfort summaries (CTIB N94, June 2018).

11. Contribution of the product to indoor quality of life (hygrothermal, acoustic, visual, and olfactory comfort)

Contribution of the product to indoor quality of life	Description																														
Hygrothermal comfort	The product does not claim any hygrothermal comfort.																														
Acoustic comfort	The product is an acoustic absorber with characteristics measured according to ISO 354 and NF EN 20354 : <table><tr><th>Fréquences (Hz)</th><th>125</th><th>250</th><th>500</th><th>1000</th><th>2000</th><th>4000</th><th></th><th></th><th></th></tr><tr><td>α_{Sabine} – suspendus en nappe à 300 mm du plafond</td><td></td><td></td><td></td><td></td><td></td><td></td><td>α_w</td><td>classe</td><td>NRC</td></tr><tr><td>100 % de panneaux acoustiques sur plaque de plâtre</td><td>0,48</td><td>1,04</td><td>1,17</td><td>1,24</td><td>1,24</td><td>1,21</td><td>1</td><td>A</td><td>1</td></tr></table>	Fréquences (Hz)	125	250	500	1000	2000	4000				α_{Sabine} – suspendus en nappe à 300 mm du plafond							α_w	classe	NRC	100 % de panneaux acoustiques sur plaque de plâtre	0,48	1,04	1,17	1,24	1,24	1,21	1	A	1
Fréquences (Hz)	125	250	500	1000	2000	4000																									
α_{Sabine} – suspendus en nappe à 300 mm du plafond							α_w	classe	NRC																						
100 % de panneaux acoustiques sur plaque de plâtre	0,48	1,04	1,17	1,24	1,24	1,21	1	A	1																						
Visual comfort	As a decorative product, it offers architects and designers a wide range of colors to enhance visual comfort for users, adaptable to the intended use. Light reflection: 81% for the color MR003 Pearly Gray. Resistance to light fading: lightfastness is ≥ 5 according to standard NF EN ISO 105-B02.																														
Olfactory comfort	The product does not claim to be pleasant-smelling.																														
Health quality of indoor spaces	The antistatic surface of Aeria® fabric limits the accumulation of dust and dirt. Care instructions are available for users.																														

12. References

NF EN ISO 14025:2010 - Environmental claims and declarations - Type III environmental declarations - Principles and procedures

NF EN 15804+A2:2019 - Contribution of construction works to sustainable development — Environmental declarations on products — Rules governing categories of construction products

NF EN 15804+A2/CN - Contribution of construction works to sustainable development — Environmental product declarations — Rules governing construction product categories — National supplement to NF EN 15804+A2

NF EN ISO 14040:2006 - Environmental management - Life cycle assessment - Principles and framework

NF EN ISO 14044:2006 - Environmental management - Life cycle assessment - Requirements and guidelines

European Commission, PEFCR Guidance document, - Guidance for the development of Product Environmental Footprint Category Rules (PEFCRs), version 6.3, December 2017.

NF EN 13431:2004 – Packaging – Requirements for packaging that can be recovered for energy, including the specification of a minimum lower calorific value

INIES, ELYS Conseil, 2024. Guide to good practice and establishment of default values for the end of life of packaging in EHPD. Version 1 – May 2024.