Environmental Product Declaration

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

Ecophon Hygiene Advance Wall



Saint-Gobain Ecophon AB

Programme	The International EPD System, www.environdec.com
Programme operator	EPD International AB
Type of EPD	EPD of a single product from a manufacturer/service provider
EPD registration number	EPD-IES-0031681:001
Version date	2026-06-10
Validity date	2031-06-10

An EPD should provide current information and may be updated or unpublished if conditions change.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

General Information

Programme information

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

PCR and verification

Product Category Rules (PCR)	CEN standard EN 15804 serves as the Core Product Category Rules (PCR) PCR 2019:14 Construction products and Construction services. Version 2.0.1 c-PCR-014 Acoustical ceiling and wall solutions PCR review was conducted by the Technical Committee of the International EPD System. See https://environdec.com/about-us/the-international-epd-system-about-the-system for a list of members. Review chair: Claudia A. Peña, PINDA Life Cycle Thinking. The review panel may be contacted via the Secretariat www.environdec.com/contact.
Third-party verification:	External and independent "third-party" verification of the declaration and data, according to ISO14025:2006, via EPD verification through: ☑ Individual EPD verification without a pre-verified LCA/EPD tool Third-party verifier: Stephen Forson, ViridisPride No image Approved by: The International EPD System
Procedure for follow-up of data during EPD validity involves third party verifier: ○ Yes ● No	

Ownership and limitations on use of EPD

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.

Information about EPD owner

Owner details	
EPD owner	Saint-Gobain Ecophon AB
Contact	Carl Eriksson
Contact details	carl.eriksson@ecophon.se, 07653663778
Address	Yttervägen 1, 265 75 Hyllinge, Sverige
Description of the organisation	Saint-Gobain Ecophon manufacture acoustic ceilings and wall absorbers. The products are based on glass wool in different density and thickness. Additional information can be found at the company website: https://www.ecophon.com/en/
Product-related or management system-related certifications:	N/A
Life Cycle Assessment (LCA)	Carl Eriksson

Product Information

Product details	
Product name(s)	Hygiene Advance Wall
Product description:	Acoustic panels made of glass wool are commonly used in schools, offices, health care facilities and production premises where there is a need for noise reduction to improve the working environment. The decrease in reverberation time, sound pressure level and other acoustic parameters are related to the amount of panels used in the room as well as the placement of the panels. Additional product information available on company website: https://www.ecophon.com/en/product-selector/
UN CPC code	37990 - Non-metallic mineral products n.e.c. (including mineral wool)
Name and location of production site(s):	**Name of plant**: Ecophon Hyllinge (SE) **Location**: Hyllinge, Sweden **Name of plant**: Ecophon Forssa (FI) **Location**: Forssa, Finland
Technical or actual lifespan	50 years

Property	Specified Performance	Technical Details
Sound absorption class	B	Test results according to EN ISO 354 at ODS 200 mm. Classification according to EN ISO 11654.
Thickness	40 mm	

Product image



Manufacturing process

Manufacturing is done by a constant online process where glass wool baseboards are sanded and covered with a painted or woven surface layer. The board is then cut into panels of different sizes and edge designs. Some edges are painted and others are left raw. https://www.ecophon.com/sv/product-selector/

Product Table

Product Name	Mass in kg	Unit
Hygiene Advance Wall	3,464	m^2

Content declaration

Product Components	Mass, kg	Post-consumer recycled material, mass-% of products	Biogenic material, mass-% of product	Biogenic material, kg C / declared unit
Glass	2,37E+00	63,24%	0,00%	0,00E+00
Plastic	2,59E-02	0,00%	0,00%	0,00E+00
Chemicals	4,89E-01	0,00%	0,00%	0,00E+00
Composite Material	3,76E-03	0,00%	0,00%	0,00E+00
Stone	2,63E-02	0,00%	0,00%	0,00E+00
Pigments	7,51E-03	0,00%	0,00%	0,00E+00
Paints and finishes	7,51E-03	0,00%	0,00%	0,00E+00
Water	1,79E-02	0,00%	0,00%	0,00E+00
Minerals	2,89E-01	0,00%	0,00%	0,00E+00
Polymers	2,13E-01	0,00%	0,00%	0,00E+00
Petroleum Products	1,53E-02	0,00%	0,00%	0,00E+00
Total	3,46E+00	63,24%	0,00%	0,00E+00

Packaging Materials	Mass, kg	Mass-% (versus the product)	Biogenic material kg C/declared unit
Paper	1,40E-01	4,04%	6,30E-02
Engineered Wood Products	4,00E-02	1,15%	2,35E-02
Plastic	7,00E-02	2,02%	0,00E+00
Total	2,50E-01	7,22%	8,65E-02

Note: Some totals may not correspond exactly to the sum of separate figures due to rounding.

Dangerous substances from the candidate list of SVHC for Authorisation	EC No.	CAS No.	Weight-% per functional or declared unit
No hazardous materials			

At the date of issue of this declaration, there is no “Substance of Very High Concern” (SVHC) in concentration above 0.1% by weight, and neither does the packaging, following the European REACH regulation (Registration, Evaluation, Authorization and Restriction of Chemicals)

LCA information

Field	Value
Functional Unit	1 m^2 of installed acoustic panels (or acoustic systems) including the service life and a declared acoustic performance class, i.e. sound absorption class A, B, C, D or E. Service life is 50 years corresponding to the building lifetime.
Conversion Factor to Mass	3,514
Time Representativeness	Data obtained refers to the year 2025
Geographical Scope	Global
System Boundary	The system boundaries are set to be "cradle to gate with options" with the modules A1-A3, A4, A5, B1-B7, C1, C2, C3, C4, D
Excluded Modules	No modules excluded
Database(s) and LCA Software Used	Ecoinvent 3.11 and EandoX version 1.01
Reference Service Life (RSL)	50
Characterisation Factors Used	The characterization factors used in this study refer to PCR 2019:14 and EN 15804+A2 (based on EF 3.1).
Allocation Procedures Used	Mass allocation of production volume from each plant during one full year of production. Glass cullet has been allocated so that the upstream impact is considered as burden free but the sorting/refinement into usable material is assigned with impact, along with the transportation to sorting facility.
Cut-off criteria	Installation of acoustic ceiling panels are carried out with manual hand tools and an electric drill. The energy required to run the drill is assumed to be negligible in comparison to the cutoff rules and is therefore not consider. Activities in modules B1-B7 is only expected to include normal surface cleaning, This is assumed to result in negligible effects in relation to the cutoff rules. The results in B1-B7 is therefore reported as 0. All other input and output flows in a unit process were considered i.e., considering the value of all flows in the unit process and the corresponding LCI where data was available. Data gaps were filled by conservative assumptions with average or generic data. Any assumptions in such cases were documented. The use of cut-off criterion on mass inputs and primary energy at the unit process level (1 %) and at the information module level (5 %). All hazardous and toxic materials and substances are included in the inventory, and the cut-off rules do not apply.

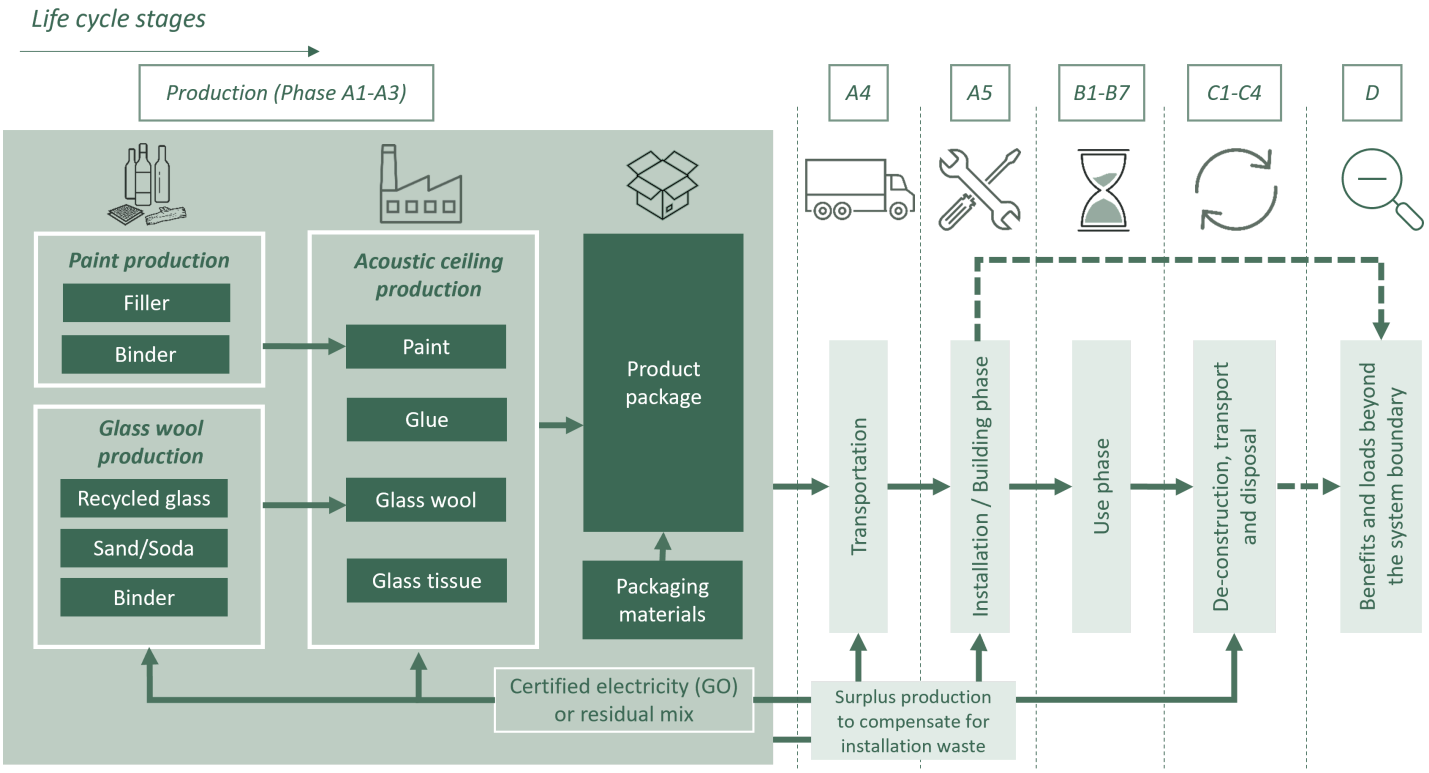
Energy Breakdown

Electricity used in the manufacturing

Energy Source	Data Source	Year	Geography	GWP excl. biogenic [kg CO2-eq/kWh]
Electricity from Wind Power	Ecoinvent 3.11	2024	RoW	1,71E-02

Breakdown of electricity usage





A1	Raw material supply	This module considers the extraction and processing of all raw materials, energy, and transportation which occur upstream to the studied manufacturing process, including packaging material.
A2	Transport to the manufacturer	The raw materials are transported to the manufacturing site.
A3	Manufacturing	This module includes all resources used to produce and waste produced. This also includes additives and packaging material.
A4	Transport	Transportation from the manufacturing site to distribution centre and then from the distribution centre to the building site is included. truck: 200km boat: 21825km
A5	Construction installation	This module covers all on-site activities required to install the product into the building structure as well as the management, transport, and treatment of any installation waste or packaging residues at the construction site
B1-B7	Use stage	This module considers the use stage of the product.
C1	Deconstruction/Demolition	This stage includes the de-construction and/or demolition of the building.
C2	Transport	This stage represents the transport distance to the waste processing facility.
C3	Waste processing	This stage includes any waste treatment needed.
C4	Final disposal	This includes any material that is landfilled.
D	Benefits	Emission credits obtained from energy recovery and/or recycling materials.

System boundaries

	Product stage			Assembly stage		Use stage							End of life stage				Benefits & loads beyond system boundary
	Raw material supply	Transport to manufacturer	Manufacturing	Transport to building site	Installation into building	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	Demolition	Transport to waste processing	Waste processing for reuse, recovery, recycling	Disposal	Reuse, recovery, recycling potential
	A1	**A2**	**A3**	**A4**	**A5**	**B1**	**B2**	**B3**	**B4**	**B5**	**B6**	**B7**	**C1**	**C2**	**C3**	**C4**	**D**
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
Specific data used	45,62%			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Variation-Products	+0% / -0%			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Variation-Sites	+0% / -0%			-	-	-	-	-	-	-	-	-	-	-	-	-	-

X - declared, ND - Not Declared

The results presented for modules A1-A3 alone shall not be used for comparisons unless all relevant life cycle stages, particularly end-of-life (C1-C4), are included. This ensures a more accurate and representative environmental impact assessment over the full product life cycle.

Declaration of data sources, reference years, and share of primary data

Process	Source type	Source	Reference year	Data category	Share of primary data, of GWP-GHG results for A1-A3
Manufacturing of product	Collected data	Ecoinvent 3.11	2024	Primary data, secondary data	12,73%
Transportation of raw materials to manufacturing site	Collected data	Ecoinvent 3.11	2024	Secondary data	0,00%
Production of raw materials and components	Collected data	Ecoinvent 3.11, CarbonZero, Ecoinvent	2023-2024	Primary data, secondary data	32,89%
Production of packaging	Collected data	Ecoinvent 3.11, Ecoinvent	2023-2024	Secondary data	0,00%
Total share of primary data, of GWP-GHG results A1-A3					45,62%

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.

Data quality notes:
Specific data was collected from suppliers to as large an extent as possible before generic data was used. Data used and the results of this analysis is therefore assumed to be representative and of good quality. None of the cut-offs are assumed to have a negative impact on the overall data quality.
The reason for having both primary data and generic data on component level is that specific data from suppliers has been collected. Consequently, raw materials are still represented with generic data but the electricity, heat etc. in the corresponding factory are classified as specific.

Values for variation sites <0.5% are rounded to 0% since decimals are not displayed in the table.

Transport to the building site (A4)

Vehicle type	Distance (km)	Capacity utilization* (%)	Bulk density of transported products (kg/m3)	Volume capacity utilisation factor**
Truck 26 tonne	200	34,6%	as product density	1,00
Container Ship (Avg)	21825	34,6%	as product density	1,00

*Including empty returns
**Factor =1 or <1 or >1 for compressed or nested packaged products

Installation of the product in the building (A5)

Scenario Information	Unit (expressed per functional unit or per declared unit)
Ancilliary materials for installation (specified by material)	None
Water use	None
Other resource use	None
Quantitative description of energy type (regional mix) and consumption during the installation process	0,00 MJ Electricity Residual Grid Mix
Direct emissions at ambient air, soil and water	None

A5 Waste materials on the building site before waste processing, generated by the product's installation (specified by type)

Name	Type	Weight	Unit (expressed per functional unit or per declared unit)
Glass	product	1,18E-01	kg
Plastic	product	1,30E-03	kg
Chemicals	product	2,45E-02	kg
Composite Material	product	1,88E-04	kg
Stone	product	1,32E-03	kg
Pigments	product	3,76E-04	kg
Paints and finishes	product	3,76E-04	kg
Water	product	8,94E-04	kg
Minerals	product	1,44E-02	kg
Polymers	product	1,07E-02	kg
Petroleum Products	product	7,66E-04	kg
Paper	packaging	1,40E-01	kg

Name	Type	Weight	Unit (expressed per functional unit or per declared unit)
Engineered Wood Products	packaging	4,00E-02	kg
Plastic	packaging	7,00E-02	kg

A5 Output materials

Name	Type	Route	Weight	Unit (expressed per functional unit or per declared unit)
Glass	product	landfill waste	1,18E-01	kg
Plastic	product	landfill waste	1,30E-03	kg
Chemicals	product	landfill waste	2,45E-02	kg
Composite Material	product	landfill waste	1,88E-04	kg
Stone	product	landfill waste	1,32E-03	kg
Pigments	product	landfill waste	3,76E-04	kg
Paints and finishes	product	landfill waste	3,76E-04	kg
Water	product	landfill waste	8,94E-04	kg
Minerals	product	landfill waste	1,44E-02	kg
Polymers	product	landfill waste	1,07E-02	kg
Petroleum Products	product	landfill waste	7,66E-04	kg
Paper	packaging	incineration waste	1,40E-01	kg
Engineered Wood Products	packaging	incineration waste	4,00E-02	kg
Plastic	packaging	incineration waste	7,00E-02	kg

End-of-life (C1-C4)

Scenario information	Unit (expressed per functional unit or per declared unit)
C1: Collection process specified by type	3,46E+00 kg demolition/deconstruction of steel, wood and other materials. Energy carrier: Diesel. Quantity: 1,1 kWh/tonne
C2: Waste transport specified by type	3,46E+00 kg materials not to be incinerated transported for 80 km 0,00E+00 kg materials to be incinerated transported for 130 km
C3: Recovery system specified by type	-
C4: Disposal specified by type	2,37E+00 kg Glass for final disposal 2,60E-02 kg Plastic for final disposal 4,89E-01 kg Chemicals for final disposal 4,00E-03 kg Composite Material for final disposal 2,60E-02 kg Stone for final disposal 8,00E-03 kg Pigments for final disposal 8,00E-03 kg Paints and finishes for final disposal 1,80E-02 kg Water for final disposal 2,89E-01 kg Minerals for final disposal 2,13E-01 kg Polymers for final disposal 1,50E-02 kg Petroleum Products for final disposal
Assumptions for scenario development, e.g. transportation	The transportation is modelled with the same specifications as the truck transportation in module A4, except the transportation distance is assumed to be 80 km for materials not to be incinerated and 130 km for materials to be incinerated.

Reuse-Recovery-Recycling-potential (D)

Scenario information
The environmental loads and benefits recorded in Module D are based on the specific quantities of materials defined in the bill of materials. This accounting reflects the product's recovery potential at its end-of-life, where the recycling of materials is assumed to displace the future production of virgin materials, thereby reducing the long-term impact of raw material extraction. Additionally, the incineration of materials facilitate resource efficiency through heat recovery; the resulting exported electricity (EEE) and thermal energy (EET) serve as a credit by reducing the future demand for external energy sources.

Environmental performance

Potential environmental impact – indicators according to EN 15804+A2

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

Results per declared unit: 1 m^2 of installed acoustic panels (or acoustic systems) including the service life and a declared acoustic performance class, i.e. sound absorption class A, B, C, D or E. Service life is 50 years corresponding to the building lifetime.

Indicator	Unit	A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	D
GWP-total	kg CO2 eq	6,61E+00	1,34E+00	8,88E-01	0,00E+00	1,38E-03	5,27E-02	2,01E-03	4,95E-02	0,00E+00
GWP-fossil	kg CO2 eq	6,75E+00	1,34E+00	5,70E-01	0,00E+00	1,38E-03	5,27E-02	2,01E-03	3,74E-02	0,00E+00
GWP-biogenic	kg CO2 eq	-1,44E-01	4,01E-05	3,17E-01	0,00E+00	1,53E-07	1,11E-05	2,92E-07	1,20E-02	0,00E+00
GWP-luluc	kg CO2 eq	4,22E-03	6,30E-05	2,15E-04	0,00E+00	1,41E-07	1,75E-05	2,59E-07	1,62E-05	0,00E+00
ODP	kg CFC11 eq	9,82E-07	4,15E-09	4,94E-08	0,00E+00	2,05E-11	1,15E-09	2,64E-11	1,13E-09	0,00E+00
AP	mol H+ eq	2,79E-02	2,56E-02	1,52E-03	0,00E+00	1,23E-05	1,69E-04	1,54E-05	3,89E-04	0,00E+00
EP-freshwater	kg P eq	1,20E-03	1,30E-05	6,52E-05	0,00E+00	4,45E-08	3,60E-06	1,93E-07	5,83E-05	0,00E+00
EP-marine	kg N eq	7,88E-03	1,09E-02	4,49E-04	0,00E+00	5,74E-06	5,74E-05	7,03E-06	1,95E-04	0,00E+00
EP-terrestrial	mol N eq	8,25E-02	1,20E-01	4,65E-03	0,00E+00	6,29E-05	6,20E-04	7,67E-05	1,08E-03	0,00E+00
POCP	kg NMVOC eq	3,16E-02	3,00E-02	1,73E-03	0,00E+00	1,88E-05	2,57E-04	2,28E-05	3,88E-04	0,00E+00
ADP-minerals & metals[1]	kg Sb-Eq	4,02E-04	6,57E-07	2,01E-05	0,00E+00	5,08E-10	1,78E-07	9,28E-10	5,78E-08	0,00E+00
ADP-fossil[1]	MJ	1,18E+02	2,73E+00	6,11E+00	0,00E+00	1,82E-02	7,50E-01	2,88E-02	8,08E-01	0,00E+00
WDP[1]	m^3	8,93E-01	1,41E-02	3,70E-02	0,00E+00	4,63E-05	4,01E-03	1,18E-04	-3,87E-01	0,00E+00
Acronyms	**GWP-total**: Total Global Warming Potential; **GWP-fossil**: Global Warming Potential fossil fuels; **GWP-biogenic**: Global Warming Potential biogenic; **GWP-luluc**: Global Warming Potential land use and land use change; **ODP**: Depletion potential of the stratospheric ozone layer; **AP**: Acidification potential, Accumulated Exceedance; **EP-freshwater**: Eutrophication potential, fraction of nutrients reaching freshwater end compartment; **EP-marine**: Eutrophication potential, fraction of nutrients reaching marine end compartment; **EP-terrestrial**: Eutrophication potential, Accumulated Exceedance; **POCP**: Formation potential of tropospheric ozone; **ADP-minerals&metals**: Abiotic depletion potential for non-fossil resources; **ADP-fossil**: Abiotic depletion for fossil resources potential; **WDP**: Water (user) deprivation potential, deprivation-weighted water consumption									

[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.*

Use of resources

Option A has been selected in calculating the primary energy indicators. Under this option, the energy is recorded as an input in the module where it enters the product system (A1–A3) and as an equivalent output in the module where it exits the system (A5 for packaging content and C3 and/or C4 for product content), whether it is transferred to another product system or treated as waste.

Results per declared unit: 1 m^2 of installed acoustic panels (or acoustic systems) including the service life and a declared acoustic performance class, i.e. sound absorption class A, B, C, D or E. Service life is 50 years corresponding to the building lifetime.

Indicator	Unit	A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	D
PERE	MJ	1,67E+01	4,35E-02	3,55E+00	0,00E+00	1,12E-04	2,89E-01	3,69E-04	2,16E-02	0,00E+00
PERM	MJ	2,54E+00	0,00E+00	-2,54E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PERT	MJ	1,92E+01	4,35E-02	1,01E+00	0,00E+00	1,12E-04	2,89E-01	3,69E-04	2,16E-02	0,00E+00
PENRE	MJ	1,02E+02	2,73E+00	8,90E+00	0,00E+00	1,82E-02	1,03E+00	2,88E-02	6,38E+00	0,00E+00
PENRM	MJ	8,67E+00	0,00E+00	-3,09E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	-5,57E+00	0,00E+00
PENRT	MJ	1,11E+02	2,73E+00	5,81E+00	0,00E+00	1,82E-02	1,03E+00	2,88E-02	8,10E-01	0,00E+00
SM	kg	2,21E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
RSF	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
NRSF	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
FW	m^3	5,80E-02	3,37E-04	2,57E-03	0,00E+00	1,27E-06	9,33E-05	2,95E-06	-9,08E-03	0,00E+00
Acronyms	**PERE**: Use of renewable primary energy excluding renewable primary energy resources used as raw materials; **PERM**: Use of renewable primary energy resources used as raw materials; **PERT**: Total use of renewable primary energy resources; **PENRE**: Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials; **PENRM**: Use of non-renewable primary energy resources used as raw materials; **PENRT**: Total use of non-renewable primary energy re-sources; **SM**: Use of secondary material; **RSF**: Use of renewable secondary fuels; **NRSF**: Use of non-renewable secondary fuels; **FW**: Use of net fresh water									

Additional mandatory and voluntary impact category indicators

Results per declared unit: 1 m^2 of installed acoustic panels (or acoustic systems) including the service life and a declared acoustic performance class, i.e. sound absorption class A, B, C, D or E. Service life is 50 years corresponding to the building lifetime.

Indicator	Unit	A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	D
GWP-GHG	kg CO2 eq	6,92E+00	1,34E+00	5,79E-01	0,00E+00	1,38E-03	5,27E-02	2,01E-03	4,95E-02	0,00E+00
PM	Disease incidence	5,83E-07	6,90E-07	3,05E-08	0,00E+00	3,52E-10	3,42E-09	4,15E-10	5,97E-09	0,00E+00
IRP[2]	kBq U235 eq.	3,87E-01	3,22E-03	2,01E-02	0,00E+00	7,66E-06	8,92E-04	1,91E-04	1,11E-03	0,00E+00
ETP-fw[1]	CTUe	3,94E+01	3,68E-01	2,13E+00	0,00E+00	9,75E-04	9,82E-02	2,01E-03	5,87E-01	0,00E+00
HTP-c[1]	CTUh	4,21E-09	3,25E-11	2,27E-10	0,00E+00	1,41E-13	9,51E-12	1,89E-13	1,68E-11	0,00E+00
HTP-nc[1]	CTUh	7,06E-08	1,76E-09	4,28E-09	0,00E+00	2,22E-12	4,06E-10	3,99E-12	8,82E-10	0,00E+00
SQP[1]	Dimensionless	3,36E+01	1,60E+00	1,87E+00	0,00E+00	1,19E-03	4,42E-01	2,61E-03	1,93E+00	0,00E+00
Acronyms	**GWP-GHG**: global warming potential - greenhouse gases; **PM**: particulate matter; **IRP**: ionizing radiation potential; **ETP-fw**: ecotoxicity potential - freshwater; **HTP-c**: human toxicity potential - cancer; **HTP-nc**: human toxicity potential - non-cancer; **SQP**: smog formation potential									

The GWP-GHG indicator is identical to GWP-total except that the characterisation factor (CF) for biogenic CO2 is set to zero. This means that the uptake and emissions of biogenic CO2 are "balanced out already in modules A1 and A3, instead of in modules A5 (for packaging) or modules C3 and/or C4 (for the product). The results over the entire product life cycle, from module A to C, are thus identical for GWP-GHG and GWP-total unless some of the uptake of biogenic CO2 is released as another greenhouse gas (e.g., CH4). In the context of Norwegian public procurement legislation, GWP-GHG is also referred to as GWP-IOBC.

[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.*

[2] *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.*

Waste indicators

Results per declared unit: 1 m^2 of installed acoustic panels (or acoustic systems) including the service life and a declared acoustic performance class, i.e. sound absorption class A, B, C, D or E. Service life is 50 years corresponding to the building lifetime.

Indicator	Unit	A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	D
HWD	kg	1,47E-01	2,73E-03	1,11E-02	0,00E+00	1,59E-05	7,55E-04	3,93E-05	7,54E-03	0,00E+00
NHWD	kg	5,28E+00	2,93E-02	1,75E-01	0,00E+00	1,18E-04	8,12E-03	1,81E-04	3,46E+00	0,00E+00
RWD	kg	5,36E-05	7,94E-07	1,19E-07	0,00E+00	1,88E-09	0,00E+00	4,54E-08	2,52E-08	0,00E+00
Acronyms	**HWD**: Hazardous waste disposed; **NHWD**: Non-hazardous waste disposed; **RWD**: Radioactive waste disposed									

Output flow indicators

Results per declared unit: 1 m^2 of installed acoustic panels (or acoustic systems) including the service life and a declared acoustic performance class, i.e. sound absorption class A, B, C, D or E. Service life is 50 years corresponding to the building lifetime.

Indicator	Unit	A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	D
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
MFR	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
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
EEE	MJ	0,00E+00	0,00E+00	6,62E-01	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	1,30E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Acronyms	**CRU**: Components for reuse; **MFR**: Materials for recycling; **MER**: Materials for energy recovery; **EEE**: Exported electric energy; **EET**: Exported thermal energy									

Information on biogenic carbon content

Parameter	Unit	Value
Biogenic carbon content in product	kg C	0,00E+00
Biogenic carbon content in the accompanying packaging	kg C	8,65E-02

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

Abbreviations

General Abbreviations

EN	European Norm (Standard)
EF	Environmental Footprint
ISO	International Organization for Standardization
PCR	Product Category Rules
CEN	European Committee for Standardization
CPC	Central Product Classification
GRI	Global Reporting Initiative
EPD	Environmental Product Declaration
GPI	General Programme Instructions
LCA	Life Cycle Assessment
c-PCR	Complementary Product Category Rules
CLC	Co-location centre
GHS	Globally harmonized system of classification and labelling of chemicals

Environmental Impact Indicators (EN 15804)

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

Resource Use Indicators

PERE	Use of renewable primary energy excluding renewable primary energy resources used as raw materials (MJ)
PERT	Total use of renewable primary energy resources (MJ)
PENRM	Use of non-renewable primary energy resources used as raw materials (MJ)
SM	Use of secondary material (kg)
NRSF	Use of non-renewable secondary fuels (MJ)
PERM	Use of renewable primary energy resources used as raw materials (MJ)
PENRE	Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials (MJ)
PENRT	Total use of non-renewable primary energy resources (MJ)
RSF	Use of renewable secondary fuels (MJ)
FW	Use of net fresh water (m^3)

Abbreviations continued

Waste Indicators

HWD Hazardous Waste (disposed) (kg)

NHWD Non-Hazardous Waste (disposed) (kg)

RWD Radioactive Waste (disposed) (kg)

Output Flow Indicators

CRU Components for Reuse (kg)

MFR Material for Recycling (kg)

MER Materials for Energy Recovery (kg)

EEE Exported Energy, Electricity (MJ)

EET Exported Energy, Thermal (MJ)

Lifecycle Stages / Modules

A1 Raw material supply

A2 Transport

A3 Manufacturing

A4 Transport to site

A5 Construction/Installation

B1 Use

B2 Maintenance

B3 Repair

B4 Replacement

B5 Refurbishment

B6 Operational energy use

B7 Operational water use

C1 Deconstruction/Demolition

C2 Transport to waste processing

C3 Waste processing

C4 Disposal

D Reuse-Recovery-Recycling potential

Other Relevant Terms

SVHC	Substances of Very High Concern	EC No.	European Community Number
CAS No.	Chemical Abstracts Service Number	MJ	Megajoule
kg	Kilogram	m^3	Cubic Meter
NMVOC	Non-Methane Volatile Organic Compounds	Sb eq.	Antimony Equivalents
RC	Recycling	LF	Landfill
P eq.	Phosphorus Equivalents	N eq.	Nitrogen Equivalents
CFC-11 eq.	Chlorofluorocarbon-11 Equivalents	CO2 eq.	Carbon Dioxide Equivalents
kg C	Kilograms of Carbon	kg CO2 eq.	Kilograms of Carbon Dioxide Equivalent
ND	Not Declared	INC	Incineration
MND	Module not declared		

References

- ISO 14040:2006
  Environmental Management – Life cycle assessment – Principles and framework.
- ISO 14044:2006
  Environmental Management – Life cycle assessment – Requirements and Guidelines.
- ISO 14025:2006
  Environmental labels and declarations — Type III environmental declarations — Principles and procedures
- EN 15804:2019+A2/AC:2021
  Sustainability of construction works – Environmental product declaration – Core rules for the product category of constructions products
- EN 15941:2024
  Sustainability of construction works - Data quality for environmental assessment of products and construction work - Selection and use of data
- EPD International
  General Program Instructions (GPI) for the International EPD® System (version 5.0.1) http://www.environdec.com/
- European Chemical Agency
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