

Owner: Hz Acoustic ApS
No.: MD-26121-EN
Issued: 24-09-2026
Valid to: 24-09-2031

3RD PARTY **VERIFIED**

EPD

VERIFIED ENVIRONMENTAL PRODUCT DECLARATION | **ISO 14025 & EN 15804**



Hz ACOUSTIC

Owner of declaration

Hz Acoustic ApS
Toftegårdsvej 32
9900 Frederikshavn
CVR: 36927674
<https://hzas.dk/>



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Programme

EPD Danmark
www.epddanmark.dk



- ☐ Industry EPD
☒ Product EPD

- ☒ Product specific
☐ Average
☐ Worst Case

Declared product(s)

Hz Acoustic Plaster 09 – Acoustic plaster based on cellulose and recycled cotton/polyester textile waste.

Number of declared datasets/product variations: 1

Production site

Toftegårdsvej 32, 9900 Frederikshavn, Denmark

Hz Acoustic ApS uses green electricity from 100% hydropower in their production.

Use of Guarantees of Origin

- ☐ No certificates used
☒ Electricity covered by GoO
☐ Biogas covered by GoO

Declared/functional unit

1 kg Hz Acoustic Plaster 09 (standard white), delivered ready for spray application.

Year of production site data (A3)

2025

EPD version

1

Basis of calculation

This EPD is developed and verified in accordance with the requirements of EN 15804+A2.

Comparability

EPDs of construction products may not be comparable if they do not comply with the requirements of EN 15804. EPD data may not be comparable if the datasets used are not developed in accordance with EN 15804 and if the background systems are not based on the same database.

Validity

This EPD has been verified in accordance with ISO 14025 and is valid for 5 years from the date of issue

Use

The intended use of an EPD is to communicate scientifically based environmental information for construction products, for the purpose of assessing the environmental performance of buildings.

EPD type

- ☐ Cradle-to-gate with modules C1-C4 and D
☐ Cradle-to-gate with options, modules C1-C4 and D
☐ Cradle-to-grave and module D
☐ Cradle-to-gate
☒ Cradle-to-gate with options

CEN standard EN 15804 serves as the core PCR

Independent verification of the declaration and data, according to EN ISO 14025

☐ internal ☒ external

Third party verifier:

Nanalin

Nana Lin Rasmussen, Lin Consulting ApS

Martha Sørensen

Martha Katrine Sørensen
EPD Danmark

System boundaries (MND = module not declared)

Product			Construction process		Use							End of life				Beyond the system boundary
Raw material supply	Transport	Manufacturing	Transport	Installation process	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	De-construction demolition	Transport	Waste processing	Disposal	Re-use, recovery and recycling potential
A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
X	X	X	X	X	MND	MND	MND	MND	MND	MND	MND	X	X	X	X	X

Product information

Product description

The main product components are shown in the table below.

Material	Hz Akustikpuds 09	kg per declared unit
Recycled textile waste (cotton/polyester 50/50), secondary material	2.24%	0.0224
Cellulose fibres, virgin material	2.49%	0.0249
Additives	10.81%	0.1081
Water	84.46%	0.8446
Total	100%	1.000

Product packaging:

The composition of the sales- and transport packaging of the product is shown in the table below.

Material	Weight % of packaging
Bucket with lid (PP)	41.82%
Euro pallet	57.19%
LLDPE stretch film	0.92%
PE top film	0.07%
Total	100%

Representativity

The declared unit is 1 kg Hz Acoustic Plaster 09. Data covers production of Hz Acoustic Plaster 09 at Hz Acoustic ApS' facility in Frederikshavn, Denmark.

Primary data for the manufacturing has been collected for the production year 2025. The data covers the entire production site's consumption of energy, water and auxiliary materials, which are allocated to the product by physical allocation

Data for the underlying LCA is based on annual averages for the production year 2025. Background data is based on Ecoinvent v3.12 (EN 15804 add-on), supplemented with supplier data where relevant. Environmental impacts are calculated using characterisation factors in accordance with EN 15804+A2, based on EF 3.1.

The data used is less than 2 years old in accordance with EN15804:2012+A2:2019.

Hazardous substances

The products does not contain substances listed on the "Candidate List of Substances of Very High Concern for authorisation"

(<http://echa.europa.eu/candidate-list-table>)

Product(s) use

Hz Acoustic Plaster 09 is used as a spray-applied acoustic finish on Hz Acoustic's acoustic panels (Hz Plus 027+, Hz Basic/Dual, etc.) in indoor buildings for public, private and commercial use. The product contributes to the overall system's sound absorption and aesthetic appearance, and is applied using spray equipment. For further details see: <https://hzas.dk/>

Essential characteristics

Hz Acoustic Plaster 09 is delivered as a ready-mixed, sprayable compound in buckets and is applied in 2-3 layers. Consumption is approx. 2.5 kg/m². Drying time is approx. 1 day at 20°C and max. 50% relative humidity. The product contains max. 0 g/l VOC (EU-VOC level category A/a/wb, limit value 30 g/l (2010); MAL code 00-1) and achieves fire class A2-s1, d0 for the finished system on Hz Acoustic Panel 001, 007, 009, 011, 071 and 073. The standard colour is white, but the product can be tinted in most NCS and RAL colours. Acoustic performance of the combined system (panel+plaster) is documented in the relevant panel EPD. The product is assigned to the product group plasters in NPCR 009 Part B §6.1, and the relevant product standard is EN 15824 for internal plasters based on organic binders, cf. §6.1.3. The fire class is determined in accordance with EN 13501-1, and the VOC content is stated in accordance with the EU VOC Directive 2004/42/EC.

Further technical specifications can be obtained on request from Hz Acoustic ApS or on Hz Acoustic's website: <https://hzas.dk/>

Service life (RSL)

The reference service life (RSL) for Hz Acoustic Plaster 09 is set at 60 years, corresponding to the reference service life of the combined acoustic system (panel + plaster), cf. AAU BUILD's service life table v. 2021 and the associated panel EPDs.

In accordance with NPCR 009 Part B §6.3.3, the reference service life for this product group normally does not depend on the properties of the product itself, but on the service life of the building or building element to which the product is applied.

Picture of product(s)



Figure 1 Hz Acoustic Plaster 09.

LCA background

Functional unit

LCI and LCIA results in this EPD relate to 1 kg Hz Acoustic Plaster 09.

Name	Hz Acoustic Plaster 09	Unit
Declared unit	1	kg
Density	1	kg/L
Conversion factor to 1 m ²	2.5	kg/m ²

PCR

This EPD is developed according to the core rules for the product category of construction products in EN 15804:2012+A2:2019, and NPCR 009 Part B for technical/chemical products for building and construction industry, version 3.0.

Energy modelling principles

Foreground system:

The product is manufactured using a specific renewable energy source with a Guarantee of Origin (hydropower) in production.

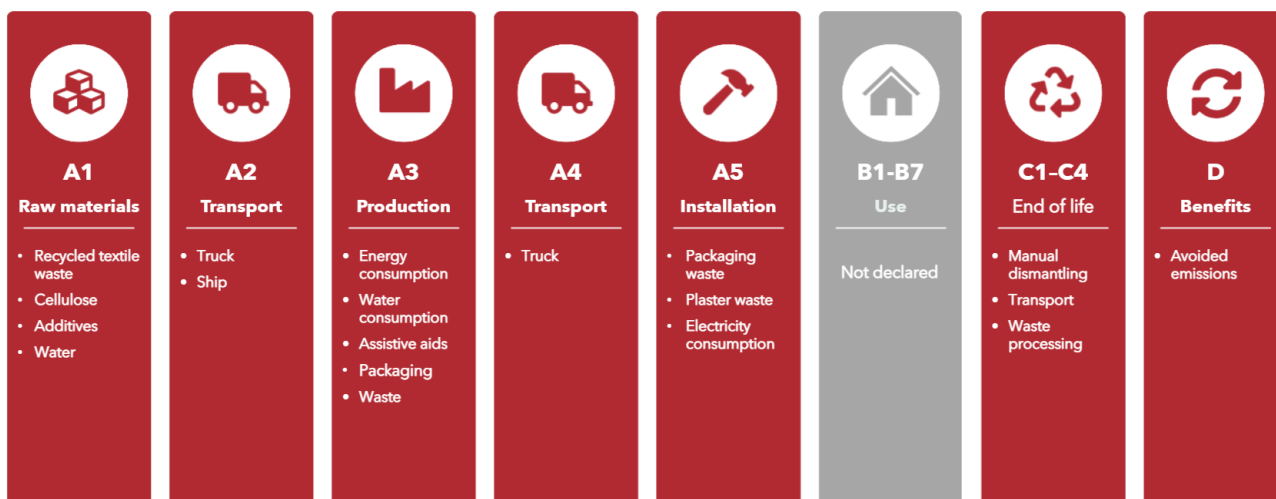
Information on energy mix in the foreground system:

Energy mix	EF	Unit
electricity production, hydro, run-of-river	0.0066	kg CO ₂ e/kWh

Background system:

Upstream processes are modelled using generic Ecoinvent datasets (v3.12, EN 15804 add-on). Downstream processes are modelled using generic Ecoinvent datasets for waste treatment and energy recovery, which displaces the average Danish electricity mix and heat.

Flowdiagram



System boundary

The EPD is based on a cradle-to-gate LCA, in which all relevant and decisive processes are included.

The general rules for omission of inputs and outputs in the LCA follow the provisions of EN 15804:2012+A2:2019, 6.3.6, where the total omission of input flows per module must not exceed 5% of energy consumption and mass, and a maximum of 1% per unit process.

Product stage (A1-A3):

A1 – Raw material supply and production

A2 – Transport to manufacturing

A3 – Manufacturing

The product stage comprises the acquisition of all raw materials, products and energy, transport to the production site, packaging and waste processing up to the “end-of-waste” state or final disposal.

The LCA results are declared in aggregated form for the product stage, which means, that the sub-modules A1, A2 and A3 are declared as one module A1-A3.

Hz Acoustic Plaster 09 is manufactured by blending recycled cotton/polyester textile waste, cellulose fibres, additives, and water. A1 covers all raw materials; A2 covers transport to the production site in Frederikshavn and A3 covers mixing and drying/stabilization of the plaster, energy and water use, and sales packaging (PP bucket, Euro pallet, LLDPE stretch film, top film), allocated to the product by physical allocation based on the area produced (m²). A3 further covers waste treatment of production waste of plaster. The production waste amounts to 5.56 % of the raw material input (0.0589 kg per kg of product) and is incinerated.

Construction process stage (A4-A5):

A4 covers transport of the finished product from the production site to the construction site (average distance 375 km in Denmark). A5 covers spray application, waste treatment of sales packaging, and the production, transport and waste treatment of product waste at the

construction site. The waste rate is 2.5 % and is accounted for in addition to the declared unit, i.e. 0.02564 kg of plaster per kg of applied plaster. The water in the plaster evaporates during drying after application.

End of life (C1-C4):

Deconstruction (C1) is carried out manually with no energy consumption, at the same time as removal of the underlying acoustic panels. In scenario (i) the plaster is scraped off the panels during dismantling, whereas in scenario (ii) it remains on the panels. C2 covers transport of the dismantled material to waste treatment (50 km) in both scenarios.

Scenario (i) – Incineration: The plaster is scraped off the acoustic panels and sent to incineration with energy recovery (C3). Residues from incineration, slag and ash, are landfilled in C4.

Scenario (ii) – Landfill (worst case): The plaster is not separated from the acoustic panels but is sent to landfill together with the panels as inert material (C4). No incineration takes place, so C3 is zero in this scenario.

The two scenarios are included to show the range in environmental impact depending on the actual disposal route. Scenario (ii) is a conservative worst case supplement to the more realistic energy recovery scenario (i).

Potential for reuse, recovery and recycling (D):

In scenario (i), incineration of the plaster gives an energy credit for avoided production of Danish district heat and electricity, declared in D (i). In scenario (ii) there is neither energy recovery nor material recovery from the product. The LLDPE stretch film from the sales packaging is recycled and substitutes virgin granulate, the buckets are recycled as a substitute PP granulates, the plaster waste at the construction site is incinerated with energy recovery, and Euro-pallets are incinerated with energy recovery. The credit for incineration of the product is calculated after deduction of the secondary material in the product (recycled textile waste).

LCA results

ENVIRONMENTAL IMPACTS PER 1 kg Hz Acoustic Plaster 09												
Parameter	Unit	A1-A3	A4	A5	C1	C2	C3 (i)	C3 (ii)	C4 (i)	C4 (ii)	D (i)	D (ii)
GWP-total	[kg CO ₂ eq.]	3.35E-01	7.01E-02	1.48E-01	0	1.53E-03	1.52E-01	0	9.41E-04	8.31E-02	-1.11E-01	-8.97E-02
GWP-fossil	[kg CO ₂ eq.]	4.85E-01	7.01E-02	7.56E-02	0	1.53E-03	7.00E-02	0	9.40E-04	9.73E-04	-1.11E-01	-8.96E-02
GWP-biogenic	[kg CO ₂ eq.]	-1.53E-01	1.48E-05	7.20E-02	0	3.59E-07	8.21E-02	0	3.36E-07	8.21E-02	-1.33E-04	-4.95E-05
GWP-luluc	[kg CO ₂ eq.]	3.28E-03	2.30E-05	2.72E-04	0	5.57E-07	1.47E-06	0	4.85E-07	5.49E-07	-1.24E-04	-4.27E-05
ODP	[kg CFC 11 eq.]	2.35E-08	1.58E-09	1.70E-09	0	3.61E-11	1.24E-10	0	2.52E-11	2.84E-11	-5.83E-09	-5.19E-09
AP	[mol H ⁺ eq.]	2.95E-03	1.45E-04	3.72E-04	0	3.61E-06	5.81E-05	0	5.20E-06	6.71E-06	-4.07E-04	-2.54E-04
EP-freshwater	[kg P eq.]	3.08E-05	5.32E-07	5.22E-06	0	1.22E-08	8.51E-08	0	1.28E-08	9.65E-09	-3.46E-06	-1.69E-06
EP-marine	[kg N eq.]	1.00E-03	3.63E-05	7.83E-05	0	9.82E-07	5.77E-05	0	3.39E-05	2.64E-06	-9.19E-05	-5.88E-05
EP-terrestrial	[mol N eq.]	9.15E-03	3.99E-04	8.93E-04	0	1.08E-05	2.83E-04	0	2.20E-05	2.89E-05	-1.05E-03	-6.22E-04
POCP	[kg NMVOC eq.]	2.11E-03	2.45E-04	2.30E-04	0	6.38E-06	7.26E-05	0	7.99E-06	1.05E-05	-5.84E-04	-4.94E-04
ADPm ¹	[kg Sb eq.]	2.35E-06	2.48E-07	1.24E-06	0	4.62E-09	1.41E-08	0	2.53E-09	1.48E-09	-9.10E-07	-5.02E-07
ADPf ¹	[MJ]	8.59E+00	9.90E-01	1.10E+00	0	2.31E-02	6.41E-02	0	1.87E-02	2.37E-02	-	-2.87E+00
WDP ¹	[m ³ world eq. deprived]	1.05E+00	5.22E-03	1.06E-01	0	1.33E-04	8.55E-03	0	6.25E-04	1.04E-03	-3.91E-02	-2.04E-02
Caption	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 of the stratospheric ozone layer; AP = Acidification; EP-freshwater = Eutrophication potential, freshwater; EP-marine = Eutrophication potential, marine; EP-terrestrial = Eutrophication potential, terrestrial; POCP = Photochemical ozone creation potential; ADPm = Abiotic depletion potential, minerals and metals; ADPf = Abiotic depletion potential, fossil resources; WDP = Water (user) deprivation potential											
Disclaimer	¹ The results of this environmental indicator shall be used with care as the uncertainties on these results are high or as there is limited experience with the indicator.											

ADDITIONAL ENVIRONMENTAL IMPACTS PER 1 kg Hz Acoustic Plaster 09												
Parameter	Unit	A1-A3	A4	A5	C1	C2	C3 (i)	C3 (ii)	C4 (i)	C4 (ii)	D (i)	D (ii)
PM	[Disease incidence]	3.14E-08	5.22E-09	2.77E-09	0	1.51E-10	4.81E-10	0	1.15E-10	1.57E-10	-4.34E-09	-1.87E-09
IRP2	[kBq U235 eq.]	1.64E-02	4.30E-04	8.79E-03	0	9.46E-06	3.66E-05	0	6.74E-06	5.60E-06	-5.03E-03	-2.07E-03
ETP-fw1	[CTUe]	5.94E+00	1.48E-01	4.34E-01	0	3.11E-03	3.99E-01	0	3.02E-01	2.97E-03	-4.14E-01	-3.28E-01
HTP-c1	[CTUh]	4.06E-10	1.12E-11	3.91E-11	0	2.45E-13	2.41E-11	0	2.85E-12	1.70E-13	-3.02E-11	-1.84E-11
HTP-nc1	[CTUh]	1.08E-08	6.06E-10	1.57E-09	0	1.43E-11	1.10E-09	0	8.19E-11	4.13E-12	-1.20E-09	-5.82E-10
SQP1	-	1.63E+01	5.98E-01	1.33E+00	0	2.34E-02	3.68E-02	0	2.76E-02	4.69E-02	-1.25E+00	-2.41E-01
Caption	PM = Particulate matter emissions; IRP = Ionising radiation - human health; ETP-fw = Ecotoxicity - freshwater; HTP-c = Human toxicity - cancer effects; HTP-nc = Human toxicity - non-cancer effects; SQP = Soil quality (Dimensionless) The figures are given in 'scientific' format, e.g. 1.95E+02. This figure can also be rewritten as: 1.95*10 ² or 195, while 1.12E-11 would be the same as 1.12*10 ⁻¹¹ or 0.0000000000112.											
Disclaimer	¹ The results of this environmental 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 mainly covers the possible impact of low-dose ionising radiation on human health from the nuclear fuel chain. It does not take into account effects resulting from possible nuclear accidents, occupational exposure, or exposure due to disposal of radioactive waste in underground facilities. Potential ionising radiation from the ground, from radon and from some construction materials is also not measured by this indicator.											

RESOURCE USE PER 1 kg Hz Acoustic Plaster 09												
Parameter	Unit	A1-A3	A4	A5	C1	C2	C3 (i)	C3 (ii)	C4 (i)	C4 (ii)	D (i)	D (ii)
PERE	[MJ]	3.90E+00	1.64E-02	1.71E+00	0	3.58E-04	8.23E-01	0	2.74E-04	8.21E-01	-5.71E-01	-8.66E-02
PERM	[MJ]	1.21E+00	7.60E-05	-7.88E-01	0	1.76E-06	-8.21E-01	0	3.62E-06	-8.21E-01	-5.90E-05	-1.88E-05
PERT	[MJ]	5.12E+00	1.65E-02	9.21E-01	0	3.59E-04	1.62E-03	0	2.77E-04	2.21E-04	-5.71E-01	-8.66E-02
PENRE	[MJ]	8.28E+00	9.89E-01	1.15E+00	0	2.31E-02	3.25E-01	0	1.87E-02	2.84E-01	-3.19E+00	-2.87E+00
PENRM	[MJ]	3.12E-01	1.57E-03	-5.08E-02	0	3.52E-05	-2.60E-01	0	2.83E-05	-2.60E-01	-9.42E-04	-6.38E-04
PENRT	[MJ]	8.59E+00	9.90E-01	1.10E+00	0	2.31E-02	6.41E-02	0	1.87E-02	2.37E-02	-3.19E+00	-2.87E+00
SM	[kg]	8.64E-02	9.73E-04	6.93E-02	0	2.10E-05	2.42E-04	0	1.66E-05	1.02E-05	-1.33E-02	-3.78E-03
RSF	[MJ]	2.00E-02	2.27E-04	1.02E-02	0	4.44E-06	4.20E-05	0	5.12E-06	1.78E-06	-7.34E-03	-1.92E-03
NRSF	[MJ]	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FW	[m3]	2.60E-02	1.19E-04	1.63E-03	0	3.06E-06	1.04E-04	0	1.46E-05	2.45E-05	-8.83E-04	-4.72E-04
Caption	PERE = Use of renewable primary energy; 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; PENRM = Use of non-renewable primary energy resources used as raw materials; PENRT = Total use of non-renewable primary energy resources; SM = Use of secondary material; RSF = Use of renewable secondary fuels; NRSF = Use of non-renewable secondary fuels; FW = Net use of fresh water The figures are given in 'scientific' format, e.g. 1.95E+02. This figure can also be rewritten as: 1.95*10² or 195, while 1.12E-11 would be the same as 1.12*10⁻¹¹ or 0.0000000000112.											

WASTE CATEGORIES AND OUTPUT FLOWS PER 1 kg Hz Acoustic Plaster 09												
Parameter	Unit	A1-A3	A4	A5	C1	C2	C3 (i)	C3 (ii)	C4 (i)	C4 (ii)	D (i)	D (ii)
HWD	[kg]	1.49E-01	6.14E-03	3.75E-02	0	1.31E-04	4.83E-03	0	9.05E-05	7.73E-05	-2.70E-02	-1.54E-02
NHWD	[kg]	2.90E+00	8.08E-02	3.04E-01	0	2.71E-03	2.28E-01	0	6.78E-02	1.56E-01	-8.76E-01	-7.96E-01
RWD	[kg]	1.26E-05	2.77E-07	4.94E-06	0	6.00E-09	2.56E-08	0	4.17E-09	3.23E-09	-2.85E-06	-1.45E-06
CRU	[kg]	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MFR	[kg]	3.93E-02	8.97E-04	4.35E-02	0	1.84E-05	5.51E-03	0	1.48E-05	9.03E-06	-1.32E-02	-3.64E-03
MER	[kg]	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EEE	[MJ]	2.42E-02	1.86E-04	2.20E-02	0	3.71E-06	3.01E-01	0	2.24E-06	1.44E-06	-3.76E-03	-1.17E-03
EET	[MJ]	5.24E-01	2.35E-04	5.77E-02	0	4.04E-06	9.02E-01	0	3.20E-06	8.14E-07	-1.69E-01	-8.73E-03
Caption	HWD = Hazardous waste disposed; NHWD = Non-hazardous waste disposed; RWD = Radioactive waste disposed; CRU = Components for re-use; MFR = Materials for recycling; MER = Materials for energy recovery; EEE = Exported electrical energy; EET = Exported thermal energy The figures are given in 'scientific' format, e.g. 1.95E+02. This figure can also be rewritten as: 1.95*10² or 195, while 1.12E-11 would be the same as 1.12*10⁻¹¹ or 0.0000000000112.											

BIOGENIC CARBON PER 1 kg Hz Acoustic Plaster 09		
Parameter	Unit	At factory gate
Biogenic carbon content in the product	[kg C]	2.24E-02
Biogenic carbon content in accompanying packaging	[kg C]	1.96E-02
Note	1 kg of biogenic carbon is equivalent to 44/12 kg of CO ₂	

Supplementary information

LCA interpretation

A3 (manufacturing) is the largest single contributor in most environmental impact categories, primarily driven by the sales packaging, where the polypropylene buckets and the injection moulding of these constitute the largest items, and by district heating for drying. A1 (raw materials) is the second largest contribution, carried by the additives, and is the largest module in ODP, AP, EP-freshwater and ADPm, where the impact is driven by the mineral raw materials in the formulation rather than by the energy consumption in production. A5 (installation) contributes significantly to GWP-total as a result of the waste treatment of the sales packaging at the construction site, while the transport modules A2, A4 and C2 make small contributions in all categories. C1 is zero, as dismantling is carried out manually without separate energy consumption. For GWP-biogenic, A1 and A3 are negative, reflecting carbon storage in the biogenic materials in the product and in the Euro pallet, while A5 and C3 give positive contributions as a result of incineration of sales packaging and the biogenic CO₂ released on disposal, respectively.

Technical information on underlying scenarios

Transport to the building site (A4)

Name	Value	Unit
Fuel consumption and type (alternatively: type of transport)	Lorry 16-32 t, EURO 6	-
Transport distance	375	km
Capacity utilisation (including empty return trips)	61	%
Gross density of transported product	1000	kg/m ³
Capacity utilisation, volume factor	1	-

Installation in the building (A5)

Name	Value	Unit
Auxiliary material for installation	0.00	kg
Operational water use	0.00	m ³
Other resources	0.00	kg
Energy type and consumption (e.g. electricity consumption incl. grid-mix type)	0.19	kWh/kg
Waste materials (packaging and product waste)	0.07	kg
Output materials related to waste processing at the site	0.04 (recycling); 0.006 (energy recovery)	kg
Direct emissions to air, soil and water	0.00	kg

Reference service life

Name		Unit
Reference Service Life - RSL	60	Years
Declared product properties (at gate) etc.	Cured, passive surface finish for indoor use; no wearing parts	
Instructions for use (if provided by the manufacturer)	Installed in a dry indoor environment; protected against permanent moisture	
Assumed quality of installation work, according to the manufacturer's instructions	Professional installation according to the manufacturer's guidelines	
Outdoor environment (outdoor use) - e.g. weather resistance, wind, pollution, UV, etc.	No	
Indoor environment (indoor use), e.g. temperature, humidity, etc.	Indoor use; temperature 18-25°C; relative humidity <70%	
Conditions of use - e.g. mechanical exposure, frequency of use, etc.	Static ceiling installation; can be used with conventional and diffuse ventilation	
Maintenance (frequency, type, quality, replacement of parts)	No periodic maintenance required	

End of life/Disposal (C1-C4)

Name	Value	Unit
Sorted construction waste	0.1554	kg
Mixed construction waste	0.00	kg
For reuse	0.00	kg
For recycling	0.00	kg
For energy recovery	0.1554 (scenario i); 0.00 (scenario ii)	kg
For landfill	0.00 (scenario i); 0.1554 (scenario ii)	kg
Assumptions for development of scenario	Scenario (i): The plaster is scraped off the panels and incinerated with energy recovery. Scenario (ii): The plaster is landfilled together with the panels as inert waste.	-

Recycling, recovery and/or reuse potential (D)

Name	Value	Unit
Displaced material (from recycling)	0.04	kg
Energy recovery from waste incineration	1.08 (scenario i); 0.05 (scenario ii)	MJ

Data quality assessment

The data quality has been assessed in accordance with Table E.1 in Annex E of EN 15804+A2 and EN 15941:2024. Overall assessment: Technology: Very good, Geography: Very good, Time: Very good. All datasets have reference year 2025, and no dataset is assessed below Good on any dimension. For individual materials and waste flows – including cellulose fibre, recycled textile waste and landfilling of the product in scenario (ii) – proxy datasets ({GLO}/{RoW}) have been used where Danish or product-specific datasets are not available. The proxies are assessed to be representative and conservative for Danish conditions and do not materially change the conclusions.

Indoor air

The EPD does not give information on release of dangerous substances to indoor air because the horizontal standards on the relevant measurements are not available. Read more in EN15804+A1 chapter 7.4.1.

Soil and water

The EPD does not give information on release of dangerous substances to soil and water because the horizontal standards on the relevant measurements are not available. Read more in EN15804+A1 chapter 7.4.2.

References

Publisher	 www.epddanmark.dk Template version 2025.1
Programme operator	Danish Technological Institute Gregersensvej DK-2630 Taastrup www.teknologisk.dk
LCA-practitioner	Selma Al-Zohairi  Nordic LCA ApS C.A. Olesens Gade 4 9000 Aalborg https://www.nordiclca.dk/
LCA software/background data	OpenLCA v. 2.6.1 (https://www.openlca.org/) and Ecoinvent v. 3.12(https://ecoinvent.org/)
3rd party verifier	Nana Lin Rasmussen Lin Consulting ApS Verified in accordance with Verification Checklist 1 v. 2.9.1.

General Programme Instructions

General Programme Instructions, version 3.0, spring 2025
www.epddanmark.dk

Technical Rules and Guidelines

Technical Rules and Guidelines, version 1.0, spring 2025
www.epddanmark.dk

EN 15804

DS/EN 15804 + A2:2019 - "Sustainability of construction works - Environmental product declarations - Core rules for the product category of construction products"

EN 15804

DS/EN 15804:2012+A2/AC:2021 - Corrigendum to DS/EN 15804 + A2:2019

NPCR 009 Part B

NPCR 009 Part B for technical/chemical products, EN 15804+A2, version 3, 06.10.2021

EN 15942

DS/EN 15942:2011 - "Sustainability of construction works - Environmental product declarations - Communication format business-to-business (B2B)"

ISO 14025

DS/EN ISO 14025:2010 - "Environmental labels and declarations - Type III environmental declarations - Principles and procedures"

ISO 14040

DS/EN ISO 14040:2008 - "Environmental management - Life cycle assessment - Principles and framework"

ISO 14044

DS/EN ISO 14044:2008 - "Environmental management - Life cycle assessment - Requirements and guidelines"