

ENVIRONMENTAL PRODUCT DECLARATION

IN ACCORDANCE WITH EN 15804+A2 & ISO 14025 / ISO 21930

Lindab Circular Sound Attenuators – SLU Insulation 25mm Lindab Ventilation AB

EPD Registration number: HUB-1702 Version: 1.0 Publication date: 15.09.2024 Valid until: 15.09.2029

Valid until: 15.09.2029 Revision date: 15.09.2024





GENERAL INFORMATION

MANUFACTURER

Manufacturer	Lindab Ventilation AB
Address	Na Hurce 1081/6, Prague, Czech Republic
Contact details	lindab@lindab.com
Website	https://www.lindab.com

EPD STANDARDS, SCOPE AND VERIFICATION

Program operator	EPD Hub, hub@epdhub.com		
Reference standard	EN 15804+A2:2019 and ISO 14025		
PCR	EPD Hub Core PCR version 1.0, 1 Feb 2022		
Sector	Construction product		
Category of EPD	Third party verified Sister EPD		
Scope of the EPD	Cradle to gate with options, A4-A5, and modules C1-C4, D		
EPD author	Tomas Martinak		
EPD verification	Independent verification of this EPD and data, according to ISO 14025: ☐ Internal certification ☑ External verification		
EPD verifier	Elma Avdyli, as an authorized verifier acting for EPD Hub Limited		

The manufacturer has the sole ownership, liability, and responsibility for the EPD. EPDs within the same product category but from different programs may not be comparable. EPDs of construction products may not be comparable if they do not comply with EN 15804 and if they are not compared in a building context.









PRODUCT

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Product name	Lindab Circular SLU sound attenuator with insulation thickness 25mm			
Additional labels				
Product reference	SLU Ø100 I=900mm GALV 25mm			
Place of production	Lindab s.r.o., Na Hurce 1081/6, Prague, Czech Republic			
Period for data	Calendar year 2023			
Averaging in EPD	No averaging			
Variation in GWP-fossil for A1-A3	< 10%			

More information on page 7.

ENVIRONMENTAL DATA SUMMARY

Declared unit	1kg of sound attenuator
Declared unit mass	1 kg
GWP-fossil, A1-A3 (kgCO2e)	3,21
GWP-total, A1-A3 (kgCO2e)	2,89
Secondary material, inputs (%)	9,14
Secondary material, outputs (%)	83,8
Total energy use, A1-A3 (kWh)	11,9
Total water use, A1-A3 (m3e)	0,01







MANUFACTURER

ABOUT LINDAB

Lindab is a leading ventilation company in Europe, offering solutions for energy-efficient ventilation and a healthy indoor climate. The products are characterised by high quality, ease of installation and environmental thinking. In northern Europe, Lindab also offers an extensive range of roof, wall and rainwater systems.

FOR A BETTER CLIMATE

We want to create a better climate. Most of us spend a majority of our time indoors. The air we breathe, in our homes, at our workplaces and at school, affects our well-being. Since air is not visible, we do not always think about it. However, the indoor climate is crucial for how we feel, for our energy levels and whether we stay healthy. Lindab wants to contribute to the architecture and indoor climate of tomorrow. We also want a better climate for our planet.



That is why we develop energy-efficient solutions for healthy indoor environments

OUR VISION

We want to be the leading player in the area in which we are strongest – ventilation in Europe. We focus on air distribution and air diffusion. Since we offer high-quality products, we focus on Europe where demand for good ventilation is high, and we can offer superior availability. We specialise in those parts of the ventilation system where we are the strongest. We adapt our offering to the local market, with our core ventilation offering as the clear common denominator in all markets.

THE IMPORTANCE OF VENTILATION

About 90 percent of the global population breathes poor air every day. A common misconception is that outdoor air is more polluted due to emissions, smog, and harmful chemicals. In fact, indoor air in homes, schools, offices, and factories can be as much as five times more polluted. People nonetheless spend most of their life indoors. The most common causes of indoor air pollution are mold, chemicals in, for example, furniture and building materials, dust, radon, and cigarette smoke but, above all, airborne particles from combustion and industrial processes, which are so small they can enter the human bloodstream via the respiratory system. Today, air pollution is a risk factor in several of the world's most common causes of death, including heart disease, pneumonia, stroke, diabetes, and lung cancer. Ventilation is an efficient and convenient method to remove those indoor air pollutants.







SUSTAINABILITY PLAN

For us, sustainability is a way of thinking and working. This affects how we work with Lindab's strategy in all areas. Everything from the purchases we make, to the deliveries and the service we offer our customers. Lindab has three long-term, non-financial targets for the business, one that focuses on increasing our attractiveness as an employer, one for reducing our own carbon dioxide emissions, and one for a better working environment.

Read more about Lindab Groups sustainability work and non-financial targets on www.lindabgroup.com.



STEEL - A SUSTAINABLE MATERIAL

Steel provides products with a long service life. Steel has many advantages over other materials – it has a very long service life, is non-combustible and meets hygiene requirements. Steel is a fully recyclable material and scrap steel has a strong market position: steel recovered from structures and end products at the end of their lifecycle is efficiently recycled and re-used. We prioritise cooperation with steel suppliers driving development towards fossil-free steel and whose carbon dioxide intensity values are good. The steel we use must be free of particularly hazardous substances.

The use of steel in Lindab's products is what contributes most to Lindab's CO2 emissions. The transition to decarbonised steel is Lindab's most significant individual action in terms of its effect on the environment. Through our collaboration with SSAB and H2 Green Steel, we will also be among the first in Europe to have access to recycled, near-zero and fossil free steel in 2026.







PRODUCT



PRODUCT DESCRIPTION

The main materials of circular sound attenuators are galvanized steel (Z275) and mineral wool.

The SLU sound attenuators are made of strong outer spiral seemed tube and an inner tube made of sheet steel with small openings to be able to withstand mechanical cleaning and at the same time does not interfere with the insertion loss.

The space between the inner and outer ducts is filled with mineral wool and the inner duct is covered with a nonwoven cloth to prevent fibres from getting into the duct system.

Further information can be found at www.lindab.com/Ventilation-Systems/Sound-Reduction

For product specific GWP calculations see additional document [EPD values Galvanized steel (file type: xlsx] which is presented for each product on www.lindab.com.

PRODUCT RAW MATERIAL MAIN COMPOSITION

Raw material category	Amount, mass- %	Material origin
Metals	85,2	EU/Asia
Minerals	13,4	EU
Fossil materials	1,4	EU
Bio-based materials	-	

BIOGENIC CARBON CONTENT

Product's biogenic carbon content at the factory gate

Biogenic carbon content in product, kg C	0
Biogenic carbon content in packaging, kg C	0,04

FUNCTIONAL UNIT AND SERVICE LIFE

Declared unit	1kg of SLU circular sound attenuator in galvanized steel
Mass per declared unit	1kg
Functional unit	-
Reference service life	>50 years The reference service life of the product is highly dependent on the conditions of use, average lifespan under normal conditions is minimum 50 years. This is an estimated value based on experience and scientific facts about steel.







SUBSTANCES, REACH - VERY HIGH CONCERN

The product does not contain any REACH SVHC substances in amounts greater than 0,1 % (1000 ppm). More detailed information about the products material content can be found in the Building Product Declaration available online.

GEOGRAPHICAL SCOPE

Europe

PRODUCT LIFE-CYCLE

SYSTEM BOUNDARY

This EPD covers the life-cycle modules listed in the following table.

Pro	duct s	tage		embly age		s				yond f systen undar	1							
A1	A2	A3	A4	A5	B1	B2	В3	B4	B5	B6	B7	C1	C2	C3	C4		D	
х	х	х	х	х	MND	MND	MND	MND	MND	MND	MND	х	х	х	х		х	
Raw materials	Transport	Manufacturing	Transport	Assembly	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	Deconstruction /Demolition	Transport	Waste processing	Disposal	Reuse	Recovery	Recycling

Modules not declared = MND. Modules not relevant = MNR.

MANUFACTURING AND PACKAGING (A1-A3)

The environmental impacts considered for the product stage cover the manufacturing of raw materials used in the production as well as packaging materials and other ancillary materials. Also, fuels used by machines, and handling of waste generated in the production processes at the manufacturing facilities are included in this stage. The study also considers the material losses occurring during the manufacturing processes as well as losses during electricity transmission.

The steel raw material is received by Lindab Group's own steel service centre, Lindab Steel AB. Lindab Steel AB. It is Lindab's own EPD Hot-dip galvanized steel with zinc coating (EPDHUB-0463) that is used as input material in this EPD. After a quality control the most suitable coil is selected for the manufacturing orders, to minimize scrap. The coil is slitted into correct dimensions, re-coiled or cut to length.

The sound attenuator bodies are produced from galvanized steel from coil. Mineral wool is cut to length and installed inside the sound attenuator. Steel end connectors are pressed, rounded and assembled to a body. The finished product is packed in a, for the specific size, appropriate manner, e.g. wooden pallet and cardboard box.

The power required to produce the sound attenuators is sourced from electricity grid mix in Czech Republic. All production waste is sent to a recycling company.

TRANSPORT AND INSTALLATION (A4-A5)

Transportation impacts occurred from final products delivery to construction site (A4) cover fuel direct exhaust emissions, environmental impacts of fuel production, as well as related infrastructure emissions. Installation spills and handling of packaging material is considered. Material loss during installation is estimated to be zero. The transportation distance is based on the market share per country. The distance for transportation of installation waste to waste management facility is assumed to be 50 km as per an estimation of the locations of warehouses. Transport from distribution centre to customer is set to 300 km.







Transport from production place to user (A4)

Manufacturing site	Total dist. (km)	Transportation method
CZ to SWE	883+116	Lorry + ferry
CZ to GER	591	Lorry
CZ to DK	1343	Lorry

PRODUCT USE AND MAINTENANCE (B1-B7)

This EPD does not cover the use phase. These life cycle stages are dependent on how the product is used and should be developed and included as part of a holistic assessment of specific construction works.

PRODUCT END OF LIFE (C1-C4, D)

Energy (0,1kWh) for deconstruction is included in C1. Activities related to steel recycling is included in C3 and C4. A recycling rate of 95% (according to World Steel Association, 2017) and landfill rate of 5% has been assumed for the product. That is to be seen as the proportion of the material in the product that will be recycled in a subsequent system. External scrap in the raw material is also deducted and accounts for 20%. Hence the net flow to be credited in module D is 76%. Insulation recycling rate of 20% and landfill rate of 80% has been assumed for the product.

See below tables for scenarios used in Modules C and D, based on Lindab Sustainability reporting scenarios.

Transport to waste processing scenario (A5, C2)

Туре	Distance
Lorry	50 km

End of Life Scenarios (A5, C3, C4, D)

	%
Metal to recycling	95
Metal to landfill	5
Insulation to recycling	20
Insulation to landfill	80
Paper to recycling	90
Paper to landfill	10
Plastic and rubber to recycling	30
Plastic and rubber to incineration	70
Wood to incineration	100

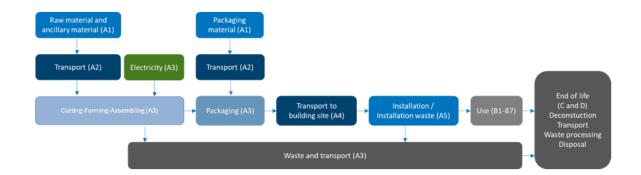
^{*}End of life scenarios are based on Lindab sustainability reporting 2022.







MANUFACTURING PROCESS









LIFE-CYCLE ASSESSMENT

CUT-OFF CRITERIA

The study does not exclude any modules or processes which are stated mandatory in the reference standard and the applied PCR. The study does not exclude any hazardous materials or substances. The study includes all major raw material and energy consumption. All inputs and outputs of the unit processes, for which data is available for, are included in the calculation.

There is no neglected unit process more than 1% of total mass or energy flows. The module specific total neglected input and output flows also do not exceed 5% of energy usage or mass.

ALLOCATION, ESTIMATES AND ASSUMPTIONS

Allocation is required if some material, energy, and waste data cannot be measured separately for the product under investigation. All allocations are done as per the reference standards and the applied PCR. In this study, allocation has been done in the following ways:

Data type	Allocation
Raw materials	No allocation
Packaging materials	No allocation
Ancillary materials	Allocated by mass or volume
Manufacturing energy and waste	Allocated by mass or volume

AVERAGES AND VARIABILITY

Type of average	No Averaging
Averaging method	Representative product
Variation in GWP-fossil for A1-A3	< 10%

This EPD is represented by the article SLU 100-900 GALV 25. It is the high runner and represents all remaining SLU sound attenuators with insulation thickness 25mm.

Impacts on GWP fossil in A1-A3 modules, because of variance in product sizes and various contribution of Bill of Materials is less than +/-10%. Production process, transportation, installation, demolition, and waste treatment are the same for all articles.

LCA SOFTWARE AND BIBLIOGRAPHY

This EPD has been created using One Click LCA EPD Generator. The LCA and EPD have been prepared according to the reference standards and ISO 14040/14044. Data from available supplier EPDs, Ecoinvent 3.8 and One Click LCA databases were used as sources of environmental data.







ENVIRONMENTAL IMPACT DATA

CORE ENVIRONMENTAL IMPACT INDICATORS - EN 15804+A2, PEF

IMPACT CATEGORY	UNIT	A1	A2	A3	A1-A3	A4	A5	B1	B2	В3	B4	B5	B6	B7	C1	C2	C3	C4	D
GWP – TOTAL	kg CO₂e	2,76E+00	8,86E-02	3,98E-02	2,89E+00	9,75E-02	3,60E-01	MND	4,38E-02	4,71E-03	4,00E-02	1,24E-02	- 1,01E+00						
GWP – FOSSIL	kg CO₂e	2,76E+00	8,86E-02	3,65E-01	3,21E+00	9,75E-02	3,47E-02	MND	4,37E-02	4,71E-03	4,00E-02	1,24E-02	- 1,01E+00						
GWP – BIOGENIC	kg CO₂e	7,50E-05	6,45E-07	-3,25E- 01	-3,25E- 01	0,00E+00	3,26E-01	MND	0,00E+00	0,00E+00	-2,35E- 05	-2,02E- 05	-7,83E- 06						
GWP – LULUC	kg CO₂e	6,20E-04	3,69E-05	5,88E-04	1,24E-03	3,85E-05	1,43E-05	MND	6,43E-05	1,74E-06	2,35E-05	1,16E-06	-2,37E- 04						
OZONE DEPLETION POT.	kg CFC-11e	1,41E-07	2,14E-08	1,28E-08	1,75E-07	2,21E-08	7,97E-09	MND	2,10E-09	1,08E-09	2,24E-09	3,63E-10	-4,07E- 08						
ACIDIFICATION POTENTIAL	mol H⁺e	4,86E-01	6,61E-04	1,68E-03	4,88E-01	6,65E-04	9,99E-05	MND	2,36E-04	1,99E-05	2,28E-04	9,61E-06	-4,38E- 03						
EP-FRESHWATER	kg Pe	8,68E-05	5,87E-07	5,59E-05	1,43E-04	7,55E-07	2,74E-07	MND	5,43E-06	3,86E-08	9,55E-07	1,16E-08	-4,28E- 05						
EP-MARINE	kg Ne	1,73E-03	1,59E-04	3,04E-04	2,19E-03	1,84E-04	2,01E-05	MND	3,01E-05	5,93E-06	4,88E-05	3,80E-06	-9,13E- 04						
EP-TERRESTRIAL	mol Ne	1,84E-02	1,77E-03	3,33E-03	2,35E-02	2,03E-03	2,23E-04	MND	3,41E-04	6,54E-05	5,63E-04	3,72E-05	-1,11E- 02						
POCP ("SMOG")	kg NMVOCe	5,80E-03	5,34E-04	1,01E-03	7,35E-03	6,01E-04	8,49E-05	MND	9,38E-05	2,09E-05	1,55E-04	1,06E-05	-5,22E- 03						
ADP-MINERALS & METALS	kg Sbe	2,22E+00	2,07E-07	1,25E-06	2,22E+00	2,19E-07	1,26E-07	MND	9,58E-08	1,10E-08	2,39E-06	2,97E-09	-1,91E- 05						
ADP-FOSSIL RESOURCE	MJ	2,85E+01	1,37E+00	5,49E+00	3,53E+01	1,44E+00	5,17E-01	MND	8,76E-01	7,07E-02	2,44E-01	2,47E-02	- 8,77E+00						
WATER USE	m³e depr.	5,37E-01	6,02E-03	2,87E-01	8,30E-01	6,26E-03	2,59E-03	MND	1,93E-02	3,16E-04	5,29E-03	3,91E-04	-1,85E- 01						

ENVIRONMENTAL IMPACTS – GWP-GHG - THE INTERNATIONAL EPD SYSTEM

IMPACT CATEGORY	UNIT	A1	A2	А3	A1-A3	A4	A5	B1	B2	В3	B4	B5	B6	В7	C1	C2	C3	C4	D
GWP-GHG*)	kg CO2e	2,76E+00	8,86E-02	3,65E-01	3,21E+00	9,75E-02	3,47E-02	MND	4,37E-02	4,71E-03	4,00E-02	1,24E-02	-1,01E+00						

^{*)} This indicator includes all greenhouse gases excluding biogenic carbon dioxide uptake and emissions and biogenic carbon stored in the product as defined by IPCC AR 5 (IPCC 2013). In addition, the characterisation factors for the flows - CH4 fossil, CH4 biogenic and Dinitrogen monoxide - were updated in line with the guidance of IES PCR 1.2.5 Annex 1. This indicator is identical to the GWP-total of EN 15804:2012+A2:2019 except that the characterization factor for biogenic CO2 is set to zero.





USE OF NATURAL RESOURCES

IMPACT CATEGORY	UNIT	A1	A2	A3	A1-A3	A4	A5	B1	B2	В3	B4	B5	B6	B7	C1	C2	СЗ	C4	D
Renew. PER as energy ⁸⁾	MJ	2,39E+00	1,67E-02	2,09E+00	4,50E+00	1,57E-02	8,38E-03	MND	1,27E-01	7,97E-04	4,27E-02	2,95E-04	- 2,19E+00						
Renew. PER as material	MJ	1,81E-01	0,00E+00	2,84E+00	3,02E+00	0,00E+00	- 2,87E+00	MND	0,00E+00	0,00E+00	-1,48E- 01	-7,79E- 03	0,00E+00						
Total use of renew. PER	MJ	2,57E+00	1,67E-02	4,93E+00	7,52E+00	1,57E-02	- 2,86E+00	MND	1,27E-01	7,97E-04	-1,05E- 01	-7,50E- 03	- 2,19E+00						
Non-re. PER as energy	MJ	3,17E+01	1,37E+00	5,27E+00	3,83E+01	1,44E+00	5,17E-01	MND	8,77E-01	7,07E-02	2,44E-01	2,47E-02	- 8,78E+00						
Non-re. PER as material	MJ	2,97E-01	0,00E+00	1,66E-01	4,63E-01	0,00E+00	-1,83E- 01	MND	0,00E+00	0,00E+00	-2,06E- 01	-7,31E- 02	0,00E+00						
Total use of non-re. PER	MJ	3,20E+01	1,37E+00	5,44E+00	3,88E+01	1,44E+00	3,33E-01	MND	8,77E-01	7,07E-02	3,77E-02	-4,84E- 02	- 8,78E+00						
Secondary materials	kg	9,14E-02	4,10E-04	1,30E-02	1,05E-01	4,16E-04	1,78E-04	MND	6,63E-05	1,96E-05	2,25E-03	4,63E-03	5,80E-01						
Renew. secondary fuels	MJ	2,71E-04	3,27E-06	9,37E-02	9,40E-02	3,86E-06	1,93E-06	MND	3,73E-07	1,98E-07	1,40E-05	1,88E-07	2,72E-04						
Non-ren. secondary fuels	MJ	6,24E-22	0,00E+00	0,00E+00	6,24E-22	0,00E+00	0,00E+00	MND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00						
Use of net fresh water	m ³	3,86E-03	1,70E-04	8,24E-03	1,23E-02	1,79E-04	7,09E-05	MND	6,78E-04	9,16E-06	1,70E-04	3,91E-05	-2,24E- 03						

END OF LIFE - WASTE

IMPACT CATEGORY	UNIT	A1	A2	A3	A1-A3	A4	A5	B1	B2	В3	B4	B5	В6	B7	C1	C2	C3	C4	D
Hazardous waste	kg	9,50E-02	1,51E-03	1,39E-02	1,10E-01	1,91E-03	6,15E-04	MND	3,13E-03	9,38E-05	1,63E-03	9,71E-07	-3,34E- 01						
Non-hazardous waste	kg	2,23E-01	2,44E-02	2,50E+00	2,75E+00	3,01E-02	1,31E-02	MND	2,49E-01	1,54E-03	5,91E-02	1,57E-01	- 1,59E+00						
Radioactive waste	kg	4,58E-04	9,45E-06	2,76E-05	4,95E-04	9,69E-06	3,55E-06	MND	6,00E-06	4,73E-07	1,41E-06	4,29E-09	1,91E-06						





END OF LIFE - OUTPUT FLOWS

IMPACT CATEGORY	UNIT	A1	A2	А3	A1-A3	A4	A5	B1	B2	В3	B4	B5	B6	B7	C1	C2	C3	C4	D
Components for re-use	kg	4,16E-06	0,00E+00	0,00E+00	4,16E-06	0,00E+00	5,80E-02	MND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00						
Materials for recycling	kg	2,53E-02	0,00E+00	1,52E-01	1,77E-01	0,00E+00	5,00E-03	MND	0,00E+00	0,00E+00	8,38E-01	0,00E+00	0,00E+00						
Materials for energy rec	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,10E-02	MND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00						
Exported energy	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,68E+00	MND	0,00E+00	0,00E+00	3,10E-02	0,00E+00	0,00E+00						

ENVIRONMENTAL IMPACTS - EN 15804+A1, CML / ISO 21930

IMPACT CATEGORY	UNIT	A1	A2	A3	A1-A3	A4	A5	B1	B2	В3	B4	B5	B6	B7	C1	C2	C3	C4	D
Global Warming Pot.	kg CO₂e	2,63E+00	8,78E-02	3,62E-01	3,08E+00	9,65E-02	3,45E-02	MND	4,33E-02	4,66E-03	3,97E-02	1,23E-02	-9,53E-01						
Ozone depletion Pot.	kg CFC-11e	9,14E-08	1,69E-08	1,09E-08	1,19E-07	1,75E-08	6,32E-09	MND	1,82E-09	8,58E-10	1,82E-09	2,90E-10	-4,54E-08						
Acidification	kg SO₂e	6,18E-03	5,30E-04	1,39E-03	8,10E-03	5,23E-04	8,19E-05	MND	2,01E-04	1,55E-05	1,84E-04	7,23E-06	-3,49E-03						
Eutrophication	kg PO ₄ ³e	7,84E-04	7,97E-05	1,80E-03	2,67E-03	9,25E-05	2,14E-05	MND	1,88E-04	3,53E-06	6,18E-05	2,49E-05	-1,77E-03						
POCP ("smog")	kg C₂H₄e	6,49E-04	1,76E-05	7,47E-05	7,42E-04	1,73E-05	4,16E-06	MND	8,20E-06	6,05E-07	6,94E-06	3,34E-07	-5,83E-04						
ADP-elements	kg Sbe	1,62E-04	2,02E-07	1,24E-06	1,63E-04	2,12E-07	1,23E-07	MND	9,55E-08	1,07E-08	2,38E-06	2,68E-09	-1,90E-05						
ADP-fossil	MJ	2,84E+01	1,37E+00	5,49E+00	3,53E+01	1,44E+00	5,17E-01	MND	8,76E-01	7,07E-02	2,43E-01	2,47E-02	-8,78E+00						





VERIFICATION STATEMENT

VERIFICATION PROCESS FOR THIS EPD

This EPD has been verified in accordance with ISO 14025 by an independent, third-party verifier by reviewing results, documents and compliancy with reference standard, ISO 14025 and ISO 14040/14044, following the process and checklists of the program operator for:

- This Environmental Product Declaration
- The Life-Cycle Assessment used in this EPD
- · The digital background data for this EPD

Why does verification transparency matter? Read more online

This EPD has been generated by One Click LCA EPD generator, which has been verified and approved by the EPD Hub.

THIRD-PARTY VERIFICATION STATEMENT

I hereby confirm that, following detailed examination, I have not established any relevant deviations by the studied Environmental Product Declaration (EPD), its LCA and project report, in terms of the data collected and used in the LCA calculations, the way the LCA-based calculations have been carried out, the presentation of environmental data in the EPD, and other additional environmental information, as present with respect to the procedural and methodological requirements in ISO 14025:2010 and reference standard.

I confirm that the company-specific data has been examined as regards plausibility and consistency; the declaration owner is responsible for its factual integrity and legal compliance.

I confirm that I have sufficient knowledge and experience of construction products, this specific product category, the construction industry, relevant standards, and the geographical area of the EPD to carry out this verification.

I confirm my independence in my role as verifier; I have not been involved in the execution of the LCA or in the development of the declaration and have no conflicts of interest regarding this verification.

Elma Avdyli, as an authorized verifier acting for EPD Hub Limited

15.09.2024







