



ENVIRONMENTAL PRODUCT DECLARATION

IN ACCORDANCE WITH EN 15804+A2 & ISO 14025

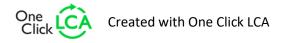
Acoustic Silence 360 Scan Underlay



EPD HUB, HUB-2044

Published on 19.08.2025, last updated on 19.08.2025, valid until 18.08.2030

Life Cycle Assessment study has been performed in accordance with the requirements of EN 15804, EPD Hub PCR version 1.1 (5 Dec 2023) and JRC characterization factors EF 3.1.









GENERAL INFORMATION

MANUFACTURER

Manufacturer	Scan Underlay
Address	Bizonvej 2, 8464 Galten, Denmark
Contact details	info@scanunderlay.com
Website	www.scanunderlay.com

EPD STANDARDS, SCOPE AND VERIFICATION

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Program operator	EPD Hub, hub@epdhub.com									
Reference standard	EN 15804+A2:2019 and ISO 14025									
PCR	EPD Hub Core PCR Version 1.1, 5 Dec 2023									
Sector	Manufactured product									
Category of EPD	Third party verified EPD									
Parent EPD number	-									
Scope of the EPD	Cradle to gate with options, A4-A5, and modules C1-C4, D									
EPD author	Christian Hansen cwh@scanunderlay.dk Scan Underlay Production ApS									
EPD verification	Independent verification of this EPD and data, according to ISO 14025: ☐ Internal verification ☑ External verification									
EPD verifier	Edis Glogic, as an authorized verifier acting for									
LI D VOITHOI	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

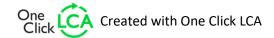
they do not comply with EN 15804 and if they are not compared in a building context.

PRODUCT

Product name	Acoustic Silence 360
Additional labels	-
Product reference	360
Place(s) of raw material origin	Global
Place(s) of installation and use	Global
Place of production	Galten, Denmark
Period for data	2024
Averaging in EPD	No averaging
Variation in GWP-fossil for A1-A3	%

ENVIRONMENTAL DATA SUMMARY

Declared unit	1 m2
Declared unit mass	0.4 kg
GWP-fossil, A1-A3 (kgCO₂e)	5,17E-01
GWP-total, A1-A3 (kgCO₂e)	5,15E-01
Secondary material, inputs (%)	0,26
Secondary material, outputs (%)	0
Total energy use, A1-A3 (kWh)	2,22
Net freshwater use, A1-A3 (m³)	0,01







PRODUCT AND MANUFACTURER

ABOUT THE MANUFACTURER

Scan Underlay, a Danish company, specializes in producing eco-friendly acoustic underlays from recycled tires. Established in 2015, the firm focuses on innovation, sustainability, and competitive pricing. By repurposing used tires, Scan Underlay actively reduces CO2 emissions, preventing landfill waste and tire incineration. The versatile products are suitable for a range of applications, including under-screed insulation as well as laminate, vinyl, carpet, and wooden flooring. With a commitment to cutting-edge technology and environmental responsibility, Scan Underlay strives to make a positive impact on sustainable flooring solutions.

PRODUCT DESCRIPTION

Acoustic Silence 360 is made of upcycled rubber from used car tires, produced using renewable energy sources. They provide exceptional durability and long-lasting performance, are easy to install and maintain, and are ecofriendly and sustainable solutions for noise reduction that meet PAHs and Reach regulations. They are designed to reduce impact noise transmission in inter-floor and inter-room applications, creating a comfortable and peaceful environment for building inhabitants.

Further information can be found at www.scanunderlay.com.

PRODUCT RAW MATERIAL MAIN COMPOSITION

Raw material category	Amount, mass %	Material origin
Metals	0	
Minerals	0	

Fossil materials	100	EU
Bio-based materials	0	

BIOGENIC CARBON CONTENT

Product's biogenic carbon content at the factory gate

Biogenic carbon content in product, kg C	0,109
Biogenic carbon content in packaging, kg C	0

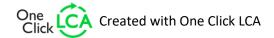
FUNCTIONAL UNIT AND SERVICE LIFE

Declared unit	1 m2
Mass per declared unit	0.4 kg
Functional unit	-
Reference service life	-

SUBSTANCES, REACH - VERY HIGH CONCERN

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The product does not contain any REACH SVHC substances in amounts greater than 0,1 % (1000 ppm).







PRODUCT LIFE-CYCLE

SYSTEM BOUNDARY

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

Pro	duct st	tage		mbly ige			U	se sta	ge			End of life stage				Beyond the system boundaries				
A1	A2	А3	A4	A5	B1	B2	В3	В4	В5	В6	В7	C1	C2	С3	C 4		D			
×	×	×	×	×	MND	MND	MND	MND	MND	MND	MND	×	×	×	×		×			
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 formed 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 main components of the product are sourced and processed efficiently. The constituents are delivered to the manufacturing site in Denmark by 16-32 metric ton, Euro6 class trucks, ensuring an efficient mode of transportation. Packaging materials include wooden pallets and film, facilitating secure transport of the underlayment material to the marketplace or construction site. The manufacturing process operates solely on windgenerated electricity, supported by a certificate of origin, and natural gas exclusively used for heating. Our manufacturing process does not require water, eliminating the need for wastewater treatment. A small production loss of 2.5% is generated, which is subsequently sent for incineration.

TRANSPORT AND INSTALLATION (A4-A5)

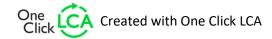
Transportation impacts occurred from final products delivery to construction site (A4) cover fuel direct exhaust emissions, environmental impacts of fuel production, as well as related infrastructure emissions.

The transportation distance is defined according to the PCR, assuming an average distance of 192 km from the production plant to retailers. The transportation method assumes full lorry loads (capacity utilization factor of 1). Environmental impacts from installation include the generation of waste packaging materials (A5), which are processed through incineration. The impacts of material production, processing, and disposal during installation are also considered. Energy consumption for the installation of the material is included.

PRODUCT USE AND MAINTENANCE (B1-B7)

This EPD does not cover the use phase.

Air, soil, and water impacts during the use phase have not been studied.



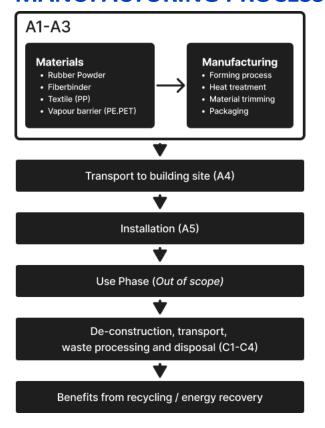


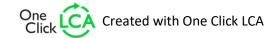


PRODUCT END OF LIFE (C1-C4, D)

At end of life, the product is manually removed from the building and the energy used for deconstruction is included. All material and packaging waste is collected and transported 192 km by lorry to an incineration facility (C2). Module C3 covers the energy and resources required for sorting and incineration, which operates at over 60 percent efficiency. In Module D, the energy recovered from incineration offsets electricity and heat production. All associated burdens and benefits of this 100 percent incineration route are captured in C3 and D.

MANUFACTURING PROCESS





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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	Allocated by mass or volume
Packaging material	Allocated by mass or volume
Ancillary materials	Not applicable
Manufacturing energy and waste	Allocated by mass or volume

AVERAGES AND VARIABILITY

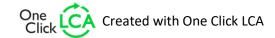
Type of average	No averaging
Averaging method	Not applicable
Variation in GWP-fossil for A1-A3	- %

This EPD is product and factory specific and does not contain average calculations.

LCA SOFTWARE AND BIBLIOGRAPHY

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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. The EPD Generator uses Ecoinvent v3.8, Plastics Europe, Federal LCA Commons and One Click LCA databases as sources of environmental data.





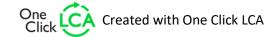


ENVIRONMENTAL IMPACT DATA

CORE ENVIRONMENTAL IMPACT INDICATORS – EN 15804+A2, EF 3.1

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	В3	B4	B5	В6	B7	C1	C2	С3	C4	D
GWP – total ¹⁾	kg CO₂e	4,70E-01	3,83E-03	4,11E-02	5,15E-01	1,42E-02	4,47E-03	MND	0,00E+00	7,21E-03	1,11E+00	0,00E+00	-4,40E-03						
GWP – fossil	kg CO₂e	4,70E-01	3,83E-03	4,33E-02	5,17E-01	1,42E-02	2,29E-03	MND	0,00E+00	7,21E-03	1,11E+00	0,00E+00	-4,38E-03						
GWP – biogenic	kg CO₂e	0,00E+00	0,00E+00	-2,18E-03	-2,18E-03	0,00E+00	2,18E-03	MND	0,00E+00	2,79E-06	1,47E-05	0,00E+00	-1,54E-05						
GWP – LULUC	kg CO₂e	3,80E-04	1,60E-06	1,12E-05	3,93E-04	5,97E-06	5,20E-07	MND	0,00E+00	2,66E-06	5,61E-06	0,00E+00	-9,37E-06						
Ozone depletion pot.	kg CFC-11e	1,11E-06	8,26E-10	1,29E-09	1,11E-06	3,07E-09	1,00E-10	MND	0,00E+00	1,66E-09	2,02E-09	0,00E+00	-2,44E-10						
Acidification potential	mol H⁺e	2,01E-03	1,13E-05	5,46E-05	2,08E-03	4,19E-05	4,41E-06	MND	0,00E+00	3,05E-05	1,75E-04	0,00E+00	-2,75E-05						
EP-freshwater ²⁾	kg Pe	1,29E-05	3,25E-08	2,81E-07	1,33E-05	1,21E-07	1,68E-08	MND	0,00E+00	5,90E-08	2,01E-07	0,00E+00	-3,57E-07						
EP-marine	kg Ne	3,70E-04	2,25E-06	9,97E-06	3,82E-04	8,37E-06	2,00E-06	MND	0,00E+00	9,07E-06	7,44E-05	0,00E+00	-5,65E-06						
EP-terrestrial	mol Ne	4,03E-03	2,50E-05	1,10E-04	4,16E-03	9,30E-05	1,74E-05	MND	0,00E+00	1,00E-04	7,93E-04	0,00E+00	-6,36E-05						
POCP ("smog") ³)	kg NMVOCe	1,50E-03	9,39E-06	4,16E-05	1,55E-03	3,49E-05	5,01E-06	MND	0,00E+00	3,20E-05	1,93E-04	0,00E+00	-1,83E-05						
ADP-minerals & metals ⁴)	kg Sbe	3,86E-06	1,36E-08	3,96E-07	4,26E-06	5,04E-08	2,06E-09	MND	0,00E+00	1,69E-08	7,49E-08	0,00E+00	-1,31E-08						
ADP-fossil resources	MJ	1,17E+01	5,55E-02	2,87E-01	1,21E+01	2,06E-01	9,52E-03	MND	0,00E+00	1,08E-01	1,54E-01	0,00E+00	-9,78E-02						
Water use ⁵⁾	m³e depr.	2,23E-01	2,45E-04	1,67E-02	2,40E-01	9,12E-04	8,72E-04	MND	0,00E+00	4,84E-04	3,26E-02	0,00E+00	-2,74E-03						

¹⁾ GWP = Global Warming Potential; 2) EP = Eutrophication potential. Required characterisation method and data are in kg P-eq. Multiply by 3,07 to get PO4e; 3) POCP = Photochemical ozone formation; 4) ADP = Abiotic depletion potential; 5) EN 15804+A2 disclaimer for Abiotic depletion and Water use and optional indicators except Particulate matter and Ionizing radiation, human health. The results of these environmental impact indicators shall be used with care as the uncertainties on these results are high or as there is limited experience with the indicator.





ADDITIONAL (OPTIONAL) ENVIRONMENTAL IMPACT INDICATORS – EN 15804+A2, EF 3.1

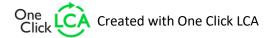
Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	В3	B4	B5	В6	B7	C1	C2	C3	C4	D
Particulate matter	Incidence	1,97E-08	3,05E-10	4,61E-10	2,05E-08	1,13E-09	6,82E-11	MND	0,00E+00	8,31E-10	8,86E-10	0,00E+00	-4,68E-10						
Ionizing radiation ⁶⁾	kBq	4,00E-02	2,60E-04	5,35E-04	4,08E-02	9,66E-04	8,38E-05	MND	0,00E+00	5,15E-04	6,01E-04	0,00E+00	-1,77E-03						
Ecotoxicity (freshwater)	CTUe	5,57E+00	5,09E-02	3,19E-01	5,94E+00	1,89E-01	1,04E-02	MND	0,00E+00	9,74E-02	1,42E+00	0,00E+00	-1,04E-01						
Human toxicity, cancer	CTUh	2,17E-10	1,43E-12	1,27E-11	2,31E-10	5,33E-12	8,48E-13	MND	0,00E+00	2,39E-12	2,19E-11	0,00E+00	-2,34E-12						
Human tox. non-cancer	CTUh	4,47E-09	4,62E-11	3,14E-10	4,83E-09	1,72E-10	3,27E-11	MND	0,00E+00	9,64E-11	1,37E-09	0,00E+00	-7,36E-11						
SQP ⁷⁾	-	9,98E-01	3,89E-02	2,70E-01	1,31E+00	1,45E-01	1,20E-02	MND	0,00E+00	1,25E-01	5,25E-02	0,00E+00	-6,73E-02						

6) EN 15804+A2 disclaimer for lonizing radiation, human health. 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; 7) SQP = Land use related impacts/soil quality.

USE OF NATURAL RESOURCES

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	В3	B4	B5	B6	В7	C1	C2	С3	C4	D
Renew. PER as energy ⁸⁾	MJ	4,34E-01	6,59E-04	3,35E-01	7,69E-01	2,45E-03	4,80E-04	MND	0,00E+00	1,22E-03	6,35E-03	0,00E+00	-4,00E-02						
Renew. PER as material	MJ	0,00E+00	0,00E+00	2,00E-02	2,00E-02	0,00E+00	-2,00E-02	MND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	6,03E-05						
Total use of renew. PER	MJ	4,34E-01	6,59E-04	3,55E-01	7,89E-01	2,45E-03	-1,95E-02	MND	0,00E+00	1,22E-03	6,35E-03	0,00E+00	-4,00E-02						
Non-re. PER as energy	MJ	6,94E+00	5,55E-02	2,33E-01	7,23E+00	2,06E-01	9,51E-03	MND	0,00E+00	1,08E-01	1,54E-01	0,00E+00	-7,99E-02						
Non-re. PER as material	MJ	4,80E+00	0,00E+00	-6,32E-02	4,74E+00	0,00E+00	-5,39E-02	MND	0,00E+00	0,00E+00	-4,69E+00	0,00E+00	1,80E-02						
Total use of non-re. PER	MJ	1,17E+01	5,55E-02	1,70E-01	1,20E+01	2,06E-01	-4,44E-02	MND	0,00E+00	1,08E-01	-4,53E+00	0,00E+00	-6,18E-02						
Secondary materials	kg	1,05E-03	1,85E-05	1,38E-04	1,21E-03	6,89E-05	7,67E-06	MND	0,00E+00	3,01E-05	1,72E-04	0,00E+00	-8,20E-03						
Renew. secondary fuels	MJ	6,19E-04	2,40E-07	5,60E-05	6,75E-04	8,93E-07	7,38E-08	MND	0,00E+00	3,03E-07	4,19E-06	0,00E+00	-5,31E-08						
Non-ren. secondary fuels	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	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	m³	5,82E-03	6,61E-06	1,23E-04	5,95E-03	2,46E-05	3,47E-06	MND	0,00E+00	1,40E-05	1,04E-03	0,00E+00	-6,65E-05						

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⁸⁾ PER = Primary energy resources.



END OF LIFE – WASTE

Impact category	Unit	A1	A2	А3	A1-A3	A4	A5	B1	B2	В3	B4	B5	В6	B7	C1	C2	C3	C4	D
Hazardous waste	kg	2,09E-02	8,03E-05	5,22E-04	2,15E-02	2,99E-04	1,56E-05	MND	0,00E+00	1,44E-04	0,00E+00	0,00E+00	-5,53E-04						
	_																		
Non-hazardous waste	kg	5,39E-01	1,28E-03	2,17E-02	5,62E-01	4,77E-03	2,54E-02	MND	0,00E+00	2,36E-03	4,00E-01	0,00E+00	-3,44E+00						
Radioactive waste	kg	1,41E-05	3,69E-07	2,09E-07	1,47E-05	1,37E-06	3,17E-08	MND	0,00E+00	7,24E-07	0,00E+00	0,00E+00	-4,95E-07						

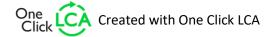
END OF LIFE – OUTPUT FLOWS

Impact category	Unit	A1	A2	А3	A1-A3	A4	A5	B1	B2	В3	B4	B5	В6	B7	C1	C2	C3	C4	D
Components for re-use	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	MND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00						
Materials for recycling	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,14E-02	MND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00						
Materials for energy rec	kg	0,00E+00	0,00E+00	1,00E-02	1,00E-02	0,00E+00	5,30E-04	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	2,12E-01	2,12E-01	0,00E+00	6,56E-02	MND	0,00E+00	0,00E+00	7,56E+00	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	В6	B7	C1	C2	C3	C4	D
Global Warming Pot.	kg CO₂e	4,52E-01	3,79E-03	4,25E-02	4,98E-01	1,41E-02	3,10E-03	MND	0,00E+00	7,13E-03	1,11E+00	0,00E+00	-4,29E-03						
Ozone depletion Pot.	kg CFC-11e	7,41E-07	6,55E-10	1,02E-09	7,42E-07	2,43E-09	8,09E-11	MND	0,00E+00	1,31E-09	1,82E-09	0,00E+00	-2,18E-10						
Acidification	kg SO₂e	1,67E-03	9,25E-06	4,32E-05	1,72E-03	3,44E-05	3,30E-06	MND	0,00E+00	2,37E-05	1,26E-04	0,00E+00	-2,24E-05						
Eutrophication	kg PO ₄ ³e	5,50E-04	2,04E-06	1,49E-05	5,67E-04	7,58E-06	4,14E-05	MND	0,00E+00	5,40E-06	9,85E-05	0,00E+00	-1,40E-05						
POCP ("smog")	kg C₂H₄e	1,09E-04	4,59E-07	3,75E-06	1,13E-04	1,71E-06	3,13E-07	MND	0,00E+00	9,26E-07	2,94E-06	0,00E+00	-1,33E-06						
ADP-elements	kg Sbe	3,83E-06	1,32E-08	3,87E-07	4,23E-06	4,93E-08	1,96E-09	MND	0,00E+00	1,64E-08	5,52E-08	0,00E+00	-1,29E-08						
ADP-fossil	MJ	1,17E+01	5,55E-02	2,80E-01	1,21E+01	2,06E-01	9,51E-03	MND	0,00E+00	1,08E-01	1,54E-01	0,00E+00	-9,77E-02						

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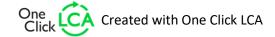




ENVIRONMENTAL IMPACTS – GWP-GHG

Impact category	Unit	A1	A2	А3	A1-A3	A4	A5	B1	B2	В3	B4	B5	В6	В7	C1	C2	С3	C4	D
GWP-GHG ⁹⁾	kg CO₂e	4,70E-01	3,83E-03	4,33E-02	5,18E-01	1,42E-02	2,29E-03	MND	0,00E+00	7,21E-03	1,11E+00	0,00E+00	-4,39E-03						

⁹⁾ 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.





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.

Edis Glogic, as an authorized verifier acting for EPD Hub Limited 20.08.2025



