

ENVIRONMENTAL PRODUCT DECLARATION

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

DAFA Paint and plaster airtight tape – with split-liner

A sealing and binding tape which you can fill and render over.



EPD HUB, HUB-1063

Publishing date 2 February 2024, last updated on 2 February 2024, valid until 2 February 2029.

GENERAL INFORMATION

MANUFACTURER

Manufacturer	DAFA A/S
Address	Holmstrupgårdvej 12, 8220 Aarhus
Contact details	dbs@dafa-group.com
Website	https://dafa-build.com/en

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 EPD
Scope of the EPD	Cradle to gate with options, A4-A5, and modules C1-C4, D
EPD author	Ksenija Ruby
EPD verification	Independent verification of this EPD and data, according to ISO 14025: <input type="checkbox"/> Internal certification <input checked="" type="checkbox"/> External verification
EPD verifier	Magaly González Vázquez, 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 are not compared in a building context.

PRODUCT

Product name	DAFA Vlies tape
Additional labels	DAFA Paint and plaster airtight tape
Product reference	620022979, 620026531
Place of production	Denmark, Aarhus
Period for data	2022.01.01-2022.12.31
Averaging in EPD	No averaging
Variation in GWP-fossil for A1-A3	-

ENVIRONMENTAL DATA SUMMARY

Declared unit	1m ²
Declared unit mass	0.395 kg
GWP-fossil, A1-A3 (kgCO ₂ e)	1,08E+00
GWP-total, A1-A3 (kgCO ₂ e)	1,07E+00
Secondary material, inputs (%)	2.5
Secondary material, outputs (%)	98.0
Total energy use, A1-A3 (kWh)	4.31
Total water use, A1-A3 (m ³ e)	2,02E-02

PRODUCT AND MANUFACTURER

ABOUT THE MANUFACTURER

DAFA Building Solutions is a solution-oriented partner for everyone: dealers, craftsmen, designers, and builders. We are continually working to increase our competence, which is also part of the collaboration - from serious advice on choosing solutions to guidance on installation on the construction site.

PRODUCT DESCRIPTION

DAFA Paint and Plaster airtight tape is a tape with split backing for ensuring airtight seals on exposed building elements such as wood, PVC, plaster, and brick. A sealing and binding tape for transitions, which you can fill and render over. The unique adhesion is suitable for binding and covering joints between surfaces such as plywood, chipboard, and flexible vapor barriers. The product complies with the strict requirements of EnEV (DIN 4108-7), covering permanent air seals in vapor barriers.

Material

High-quality PP fabric. It does not curl and withstands thermal expansion and movement in the building. The unique acrylic mixture adhesive maintains good performance when exposed to moisture and vapor, prolonging the expected lifetime of the seal, especially on building materials subjected to expansion and contraction.

Further information can be found at <https://dafa-build.com/en>.

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

The product's biogenic carbon content at the factory gate

Biogenic carbon content in the product, kg C	0
Biogenic carbon content in packaging, kg C	0.00255

FUNCTIONAL UNIT AND SERVICE LIFE

Declared unit	1 m ²
Mass per declared unit	0.395 kg
Functional unit	-
Reference service life	-

SUBSTANCES, REACH - VERY HIGH CONCERN

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.

Product stage			Assembly stage		Use stage								End of life stage				Beyond the system boundaries	
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		
Raw materials	Transport	Manufacturing	Transport	Assembly	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	Deconstr./demol.	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.

Manufacturing:

The manufacturing is located in Aarhus, Denmark. The tape consists of a polypropylene carrier, adhesive, and silicone pp liner to ensure the adhesive does not stick to the product. The PP carrier and adhesive are laminated together, and it is cut in size.

The distance to the manufacturing site is 1010 km for the different

materials and is by lorry. There are no internal transport or production losses.

Packaging:

The tape is wrapped on a cardboard winding tube. The rolls are then packed in their dedicated cardboard boxes and placed on reusable pallets, which are also packed in PE plastic film. All packaging materials are recyclable or even reusable (pallets).

TRANSPORT AND INSTALLATION (A4-A5)

Transportation impacts occurring from final product delivery to the 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. The average distance of transportation from storage to the retailers' site is 11 km and the transportation method is assumed to be a lorry. The vehicle capacity utilization volume factor is assumed to be 1 meaning full load. In reality, it may vary but as the role of transportation emissions in total results is small, the variation in load is assumed to be negligible. Empty returns are not taken into account as it is assumed that the return trip is used by the transportation company to serve the needs of other clients. (Empty returns are considered in the ecoinvent database.)

Transportation does not cause losses as the product is packaged properly. Environmental impacts from installation into the building consider the generation of waste packaging materials, the release of biogenic carbon dioxide from wood pallets.

PRODUCT USE AND MAINTENANCE (B1-B7)

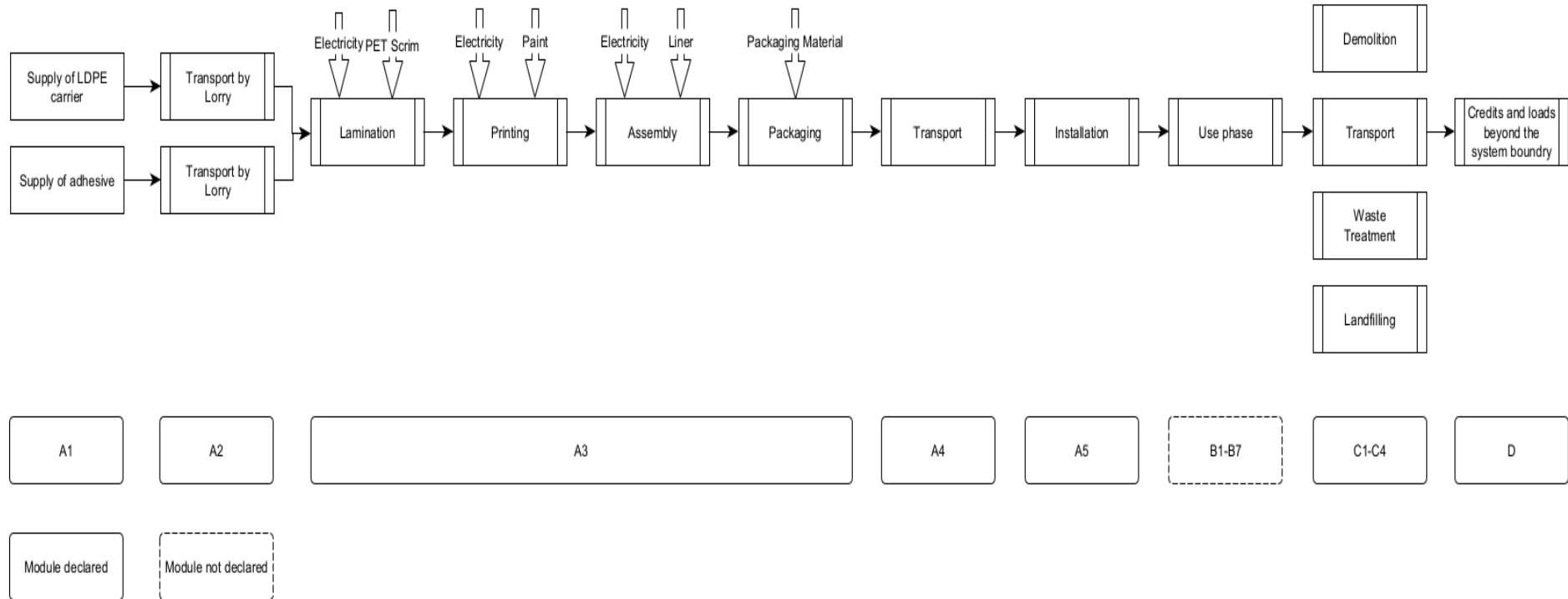
This EPD does not cover the use phase.

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

PRODUCT END OF LIFE (C1- C4, D)

For C1 it has been assumed that the product can be uninstalled manually by using hand-cutting tools. The end-of-life waste scenario per input material has been chosen and for each raw material, 100% incineration has been modeled under the consideration of suitable loads and benefits. The transportation distance to treatment is assumed to be 50 km and the transportation method is assumed to be a lorry (C2). Module C3 accounts for energy and resource inputs for sorting and treating these waste streams for recycling and incineration with energy recovery with efficiency greater than 60%. The energy recovered mitigates 85% district heat, and 15% electricity. Due to the material and energy recovery potential of parts in the end-of-life product and packaging, the energy recovered from incineration replaces electricity and heat production (D). The benefits and loads of incineration are included in Module D. All end-of-life product is assumed to be sent to the closest facilities.

MANUFACTURING PROCESS



LIFE-CYCLE ASSESSMENT

CUT-OFF CRITERIA

The study does not exclude any modules or processes that are stated as 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 materials 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	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

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. Ecoinvent v3.8 and One Click LCA databases were used as sources of environmental data.

ENVIRONMENTAL IMPACT DATA

CORE ENVIRONMENTAL IMPACT INDICATORS – EN 15804+A2, PEF VP-029-C

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
GWP – total ¹⁾	kg CO ₂ e	9,94E-01	6,15E-02	1,73E-02	1,07E+00	1,17E-02	2,83E-02	MND	MND	MND	MND	MND	MND	MND	MNR	3,15E-03	9,17E-01	0,00E+00	-7,69E-01
GWP – fossil	kg CO ₂ e	9,89E-01	6,14E-02	2,66E-02	1,08E+00	1,17E-02	1,90E-02	MND	MND	MND	MND	MND	MND	MND	MNR	3,15E-03	9,21E-01	0,00E+00	-7,69E-01
GWP – biogenic	kg CO ₂ e	4,78E-03	0,00E+00	-9,35E-03	-4,57E-03	0,00E+00	9,35E-03	MND	MND	MND	MND	MND	MND	MND	MNR	0,00E+00	-4,78E-03	0,00E+00	0,00E+00
GWP – LULUC	kg CO ₂ e	7,29E-04	2,43E-05	1,91E-05	7,72E-04	4,66E-06	2,37E-07	MND	MND	MND	MND	MND	MND	MND	MNR	1,26E-06	7,82E-06	0,00E+00	-3,77E-04
Ozone depletion pot.	kg CFC ₁₁ e	6,37E-08	1,42E-08	4,30E-10	7,83E-08	2,70E-09	7,04E-11	MND	MND	MND	MND	MND	MND	MND	MNR	7,30E-10	2,02E-09	0,00E+00	-3,83E-08
Acidification potential	mol H ⁺ e	9,60E-03	2,01E-04	2,21E-05	9,82E-03	3,31E-05	5,41E-06	MND	MND	MND	MND	MND	MND	MND	MNR	8,96E-06	2,13E-04	0,00E+00	-5,88E-03
EP-freshwater ²⁾	kg Pe	5,03E-05	4,44E-07	2,22E-07	5,09E-05	8,32E-08	6,96E-09	MND	MND	MND	MND	MND	MND	MND	MNR	2,25E-08	2,42E-07	0,00E+00	-3,65E-05
EP-marine	kg Ne	7,90E-04	4,85E-05	9,85E-06	8,48E-04	6,61E-06	2,44E-06	MND	MND	MND	MND	MND	MND	MND	MNR	1,79E-06	9,93E-05	0,00E+00	-7,07E-04
EP-terrestrial	mol Ne	8,18E-03	5,36E-04	7,69E-05	8,79E-03	7,34E-05	2,53E-05	MND	MND	MND	MND	MND	MND	MND	MNR	1,98E-05	1,02E-03	0,00E+00	-8,42E-03
POCP (“smog”) ³⁾	kg NMVOCe	3,28E-03	1,85E-04	2,05E-05	3,49E-03	2,82E-05	6,25E-06	MND	MND	MND	MND	MND	MND	MND	MNR	7,63E-06	2,48E-04	0,00E+00	-2,27E-03
ADP-minerals & metals ⁴⁾	kg Sbe	1,11E-05	2,13E-07	2,38E-08	1,14E-05	4,21E-08	2,43E-09	MND	MND	MND	MND	MND	MND	MND	MNR	1,14E-08	8,32E-08	0,00E+00	-7,31E-07
ADP-fossil resources	MJ	2,23E+01	9,15E-01	5,67E-02	2,33E+01	1,73E-01	5,70E-03	MND	MND	MND	MND	MND	MND	MND	MNR	4,69E-02	1,71E-01	0,00E+00	-7,84E+00
Water use ⁵⁾	m ³ e depr.	7,41E-01	4,25E-03	3,17E-03	7,49E-01	8,12E-04	1,05E-03	MND	MND	MND	MND	MND	MND	MND	MNR	2,20E-04	3,65E-02	0,00E+00	-1,35E-01

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.

USE OF NATURAL RESOURCES

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Renew. PER as energy ⁸⁾	MJ	1,19E+00	1,30E-02	5,61E-02	1,26E+00	2,52E-03	1,83E-04	MND	MND	MND	MND	MND	MND	MND	MNR	6,83E-04	6,70E-03	0,00E+00	-2,68E+00
Renew. PER as material	MJ	0,00E+00	0,00E+00	8,15E-02	8,15E-02	0,00E+00	-8,15E-02	MND	MND	MND	MND	MND	MND	MND	MNR	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Total use of renew. PER	MJ	1,19E+00	1,30E-02	1,38E-01	1,34E+00	2,52E-03	-8,13E-02	MND	MND	MND	MND	MND	MND	MND	MNR	6,83E-04	6,70E-03	0,00E+00	-2,68E+00
Non-re. PER as energy	MJ	1,33E+01	9,15E-01	4,90E-02	1,42E+01	1,73E-01	5,70E-03	MND	MND	MND	MND	MND	MND	MND	MNR	4,69E-02	1,71E-01	0,00E+00	-7,84E+00
Non-re. PER as material	MJ	9,01E+00	0,00E+00	7,69E-03	9,02E+00	0,00E+00	-7,69E-03	MND	MND	MND	MND	MND	MND	MND	MNR	0,00E+00	-9,01E+00	0,00E+00	0,00E+00
Total use of non-re. PER	MJ	2,23E+01	9,15E-01	5,67E-02	2,33E+01	1,73E-01	-1,99E-03	MND	MND	MND	MND	MND	MND	MND	MNR	4,69E-02	-8,84E+00	0,00E+00	-7,84E+00
Secondary materials	kg	9,88E-03	3,04E-04	2,44E-03	1,26E-02	5,90E-05	5,46E-06	MND	MND	MND	MND	MND	MND	MND	MNR	1,60E-05	1,53E-04	0,00E+00	-8,80E-04
Renew. secondary fuels	MJ	1,19E-04	3,33E-06	1,93E-03	2,05E-03	6,50E-07	1,22E-07	MND	MND	MND	MND	MND	MND	MND	MNR	1,76E-07	5,37E-06	0,00E+00	-5,88E-06
Non-ren. secondary fuels	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	MND	MND	MND	MND	MND	MND	MND	MNR	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Use of net fresh water	m ³	2,00E-02	1,16E-04	8,79E-05	2,02E-02	2,21E-05	2,71E-05	MND	MND	MND	MND	MND	MND	MND	MNR	5,98E-06	1,36E-03	0,00E+00	-9,26E-03

8) PER = Primary energy resources.

END OF LIFE – WASTE

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Hazardous waste	kg	1,18E-01	1,06E-03	1,81E-04	1,19E-01	1,97E-04	3,32E-06	MND	MND	MND	MND	MND	MND	MND	MNR	5,34E-05	0,00E+00	0,00E+00	-6,60E-02
Non-hazardous waste	kg	3,57E+00	1,86E-02	1,46E-02	3,60E+00	3,51E-03	1,24E-02	MND	MND	MND	MND	MND	MND	MND	MNR	9,48E-04	3,87E-01	0,00E+00	-2,67E+00
Radioactive waste	kg	4,50E-05	6,28E-06	1,56E-07	5,14E-05	1,19E-06	1,09E-08	MND	MND	MND	MND	MND	MND	MND	MNR	3,23E-07	0,00E+00	0,00E+00	-2,40E-05

END OF LIFE – OUTPUT FLOWS

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	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	MND	MND	MND	MND	MND	MND	MNR	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	3,22E-04	MND	MND	MND	MND	MND	MND	MND	MNR	0,00E+00	0,00E+00	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	1,23E-02	MND	MND	MND	MND	MND	MND	MND	MNR	0,00E+00	3,87E-01	0,00E+00	0,00E+00
Exported energy	MJ	0,00E+00	0,00E+00	2,74E-01	2,74E-01	0,00E+00	3,42E-01	MND	MND	MND	MND	MND	MND	MND	MNR	0,00E+00	1,07E+01	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	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Global Warming Pot.	kg CO ₂ e	9,56E-01	6,09E-02	2,66E-02	1,04E+00	1,16E-02	1,90E-02	MND	MND	MND	MND	MND	MND	MND	MNR	3,12E-03	9,20E-01	0,00E+00	-7,54E-01
Ozone depletion Pot.	kg CFC ₁₁ e	5,41E-08	1,13E-08	3,68E-10	6,58E-08	2,14E-09	6,06E-11	MND	MND	MND	MND	MND	MND	MND	MNR	5,79E-10	1,82E-09	0,00E+00	-3,11E-08
Acidification	kg SO ₂ e	8,43E-03	1,61E-04	1,60E-05	8,61E-03	2,72E-05	3,88E-06	MND	MND	MND	MND	MND	MND	MND	MNR	7,35E-06	1,51E-04	0,00E+00	-5,00E-03
Eutrophication	kg PO ₄ ³ e	2,22E-03	3,55E-05	1,17E-05	2,27E-03	5,86E-06	2,99E-06	MND	MND	MND	MND	MND	MND	MND	MNR	1,59E-06	1,10E-04	0,00E+00	-1,32E-03
POCP ("smog")	kg C ₂ H ₄ e	4,99E-04	7,47E-06	1,25E-06	5,08E-04	1,37E-06	1,01E-07	MND	MND	MND	MND	MND	MND	MND	MNR	3,71E-07	3,28E-06	0,00E+00	-2,18E-04
ADP-elements	kg Sbe	1,09E-05	2,08E-07	2,10E-08	1,11E-05	4,12E-08	2,02E-09	MND	MND	MND	MND	MND	MND	MND	MNR	1,11E-08	6,49E-08	0,00E+00	-7,24E-07
ADP-fossil	MJ	2,23E+01	9,15E-01	5,63E-02	2,33E+01	1,73E-01	5,70E-03	MND	MND	MND	MND	MND	MND	MND	MNR	4,69E-02	1,71E-01	0,00E+00	-7,84E+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 compliance with reference standards, 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.

Magaly González Vázquez, as an authorized verifier acting for EPD Hub Limited

02.02.2024

