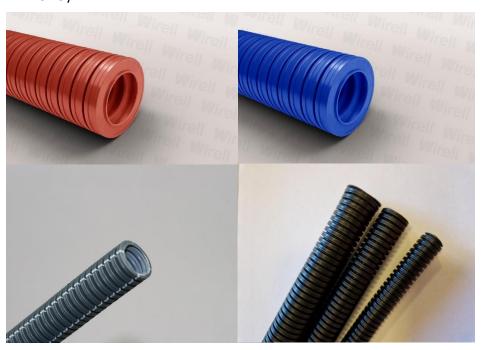




ENVIRONMENTAL PRODUCT DECLARATION

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

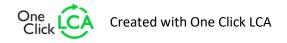
Polypropylene pipes and slot pipes Ø 16-28 mm Wirell Oy



EPD HUB, HUB-3362

Published on 23.05.2025, last updated on 23.05.2025, valid until 22.05.2030

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	Wirell Oy
Address	Nappikuja 2, 82200 Hammaslahti
Contact details	info@wirell.fi
Website	https://wirell.fi/

EPD STANDARDS, SCOPE AND VERIFICATION

LI D STANDANDS, SCOT L	
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	Construction 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	Lauri Pulkkinen, A-Insinöörit Suunnittelu Oy
EPD verification	Independent verification of this EPD and data, according to ISO 14025: ☐ Internal verification ☑ External verification
EPD verifier	Sarah Curpen, as an authorized verifier acting for EPD Hub Limited.

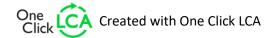
The manufacturer has the sole ownership, liability, and responsibility for the EPD. EPDs within the same product category but from different programs may not be comparable. EPDs of construction products may not be comparable if they do not comply with EN 15804 and if they are not compared in a building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

PRODUCT

Product name	Polypropylene pipes and slot pipes Ø16-28 mm
Additional labels	Ø16-25HF-A SC ICTA TAM 40-80 G/m Ø16-25HF-UV Black Ø23-28 Cover pipes for water supply line
Product reference	-
Place of production	Finland
Period for data	01/01/2024-31/12/2024
Averaging in EPD	Representative product
Variation in GWP-fossil for A1-A3	[-2.6%; +0.3%]

ENVIRONMENTAL DATA SUMMARY

Declared unit	1 kg of polypropylene pipes and slot pipes Ø16-28 mm
Declared unit mass	1 kg
GWP-fossil, A1-A3 (kgCO₂e)	3,08E+00
GWP-total, A1-A3 (kgCO₂e)	2,68E+00
Secondary material, inputs (%)	7,67
Secondary material, outputs (%)	100
Total energy use, A1-A3 (kWh)	17,7
Net freshwater use, A1-A3 (m³)	0,03







PRODUCT AND MANUFACTURER

ABOUT THE MANUFACTURER

Wirell Oy is a manufacturer of plastic tubes system for electricity, telecom and water. We are a Finnish family business, whose factory is located in Joensuu, North Karelia, Finland. We supply client's requests around the word.

All Wirell products are fire-safe and designed to have as little impact on the environment as possible. Most of Wirell's products are listed in the Nordic Ecolabelling construction product database and can be used in Nordic Swan Ecolabelled buildings.

PRODUCT DESCRIPTION

Wirell Oy manufactures tubes, according to standards IEC7EN61386-1:2008+A1, IEC7EN61386-22:2021+A1, EN 60754-2, EN 61034-2 LSF0H The manufacturing material is polypropylene (PP).

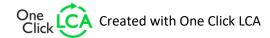
Wirell Aalto series:

- Halogen free electric pipes type: Aalto, two-layer pipes. Dimensions 16, 20, 25 mm, inside layer include a slippery substance. The purpose of the electrical installation pipes we manufacture is to protect buildings, cables, conductors, and insulators from pressure effects and rodent damage (the pipes thus improve fire safety in buildings) and ensure the maintainability of the equipment and thus provide long-lasting protection and benefit.
- Anti UV Halogen free Electric pipe type: Anti UV, Dimensions 16, 20, 25mm. UV resistant and black in color, suitable for outdoor installation. Tested in a climate chamber according to standards CEI 50289 and CEI EN 50618 with equipment that meets the requirements of ISO 4892-2.

3. Wirell Water cover pipes: Cover pipes for water supply line. Inside dimension 28mm and 23 mm. The manufacturing material is polypropylene. The tubes are UV-protected. Intended to be installed inside structures.

Further information can be found at https://wirell.fi/.









PRODUCT RAW MATERIAL MAIN COMPOSITION

Raw material category	Amount, mass %	Material origin
Metals	-	-
Minerals	-	-
Fossil materials	100	Global
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	0.11

FUNCTIONAL UNIT AND SERVICE LIFE

Declared unit	1 kg of polypropylene pipes and slot pipes Ø16-28 mm
Mass per declared unit	-
Functional unit	-
Reference service life	-

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

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.

Pro	duct st	tage		mbly age			U	se sta	ge			E	nd of l	ife stag	ge	Beyond the system boundaries				
A1	A2	А3	A4	A5	B1	B2	В3	B4	В5	В6	В7	C1	C2	С3	C4	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.

Manufacturing process starts from supply of raw materials. Raw materials are sourced from global markets. Energy production consists of inhouse heat generation and inhouse solar power and sourced electricity. Generated production losses are mainly recycled back to production. Wastes are recycled or directed to waste to energy treatment. Inhouse transportation is handled with forklifts.

The manufacturing process of polypropylene (PP) pipes involves melting PP resin and extruding it through a die to form a continuous pipe, which is then cooled, cut to length, and tested for quality and durability. Additives may be blended with the resin to enhance performance characteristics like UV resistance or flexibility.

Finished products are packed to plastic wrapping and transported on EUR flat pallets.

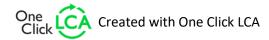
TRANSPORT AND INSTALLATION (A4-A5)

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 manufacturer estimated the average distance to the installation site based on the outbound transportation leaving the manufacturer's site.

Use scenario: Packaged products are transported to the customers and installed to the building. Installation is done manually and therefore the energy for installation is negligible. Packaging materials on construction site are directed to waste treatment. Assembly losses are considered.

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)

End of life scenario: studied product is directed to waste to energy treatment.

Module C1: The demolition is done manually and therefore the energy is considered to be negligible.

Module C2: Conservative assumption for transportation distance is 50 km from demolition site to waste to energy plant.

Module C3: Based on expert review of the manufacturer, studied product is directed to incineration with energy recovery.

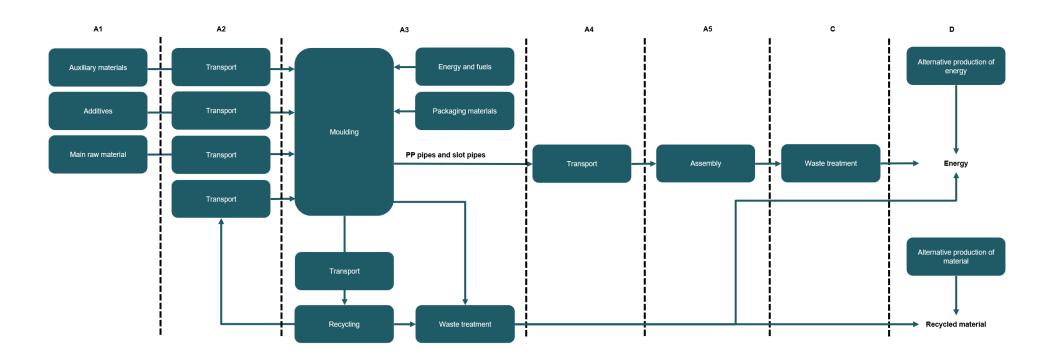
Module C4: No material is directed to disposal.

Module D: Benefits (i.e. credits) beyond the system boundary are considered for energy and material recovered in waste treatment (incineration with energy recovery) of production losses and assembly losses (in A3 and A5 modules) as well as packaging materials in module A5. Also, module C3 end of life treatment is considered for studied product.





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 material	Mass based allocation
Ancillary materials	Mass based allocation
Manufacturing energy and waste	Mass based allocation

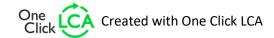
AVERAGES AND VARIABILITY

Type of average	Multiple products
Averaging method	Representative product
Variation in GWP-fossil for A1-A3	[-2.6%; +0.3%]

This EPD covers Wirell Oy's Polypropylene pipes and slot pipes \varnothing 16-28 mm. Results are presented for representative product, 20HF-A SC ICTA TAM 60 G/m. Variation of fossil global warming impact between studied polypropylene pipes due to variation in diameter, color and possible additives stays below 3%.

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. The EPD Generator uses Ecoinvent v3.10.1 and One Click LCA databases as sources of environmental data. Allocation used in Ecoinvent 3.10.1 environmental data sources follow the methodology 'allocation, Cutoff, EN 15804+A2'.





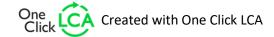


ENVIRONMENTAL IMPACT DATA

CORE ENVIRONMENTAL IMPACT INDICATORS – EN 15804+A2, PEF

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	В3	B4	B5	В6	B7	C1	C2	C3	C4	D
GWP – total ¹⁾	kg CO₂e	2,37E+00	2,05E-01	2,39E-02	2,59E+00	4,79E-02	6,67E-01	MND	0,00E+00	5,38E-03	2,62E+00	0,00E+00	-3,03E-01						
GWP – fossil	kg CO₂e	2,37E+00	2,05E-01	4,24E-01	3,00E+00	4,78E-02	2,61E-01	MND	0,00E+00	5,38E-03	2,62E+00	0,00E+00	-7,03E-01						
GWP – biogenic	kg CO₂e	-4,82E-03	0,00E+00	-4,01E-01	-4,05E-01	0,00E+00	4,05E-01	MND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	4,02E-01						
GWP – LULUC	kg CO₂e	1,31E-03	9,51E-05	5,64E-04	1,97E-03	2,14E-05	8,09E-05	MND	0,00E+00	2,41E-06	7,83E-06	0,00E+00	-2,68E-03						
Ozone depletion pot.	kg CFC-11e	1,08E-07	3,00E-09	1,01E-08	1,22E-07	7,06E-10	4,94E-09	MND	0,00E+00	7,95E-11	3,60E-10	0,00E+00	-3,48E-08						
Acidification potential	mol H⁺e	7,27E-03	1,71E-03	3,01E-03	1,20E-02	1,63E-04	5,11E-04	MND	0,00E+00	1,84E-05	3,34E-04	0,00E+00	-1,20E-03						
EP-freshwater ²⁾	kg Pe	4,30E-04	1,41E-05	1,94E-04	6,38E-04	3,72E-06	2,61E-05	MND	0,00E+00	4,19E-07	3,57E-06	0,00E+00	-6,14E-05						
EP-marine	kg Ne	1,44E-03	4,70E-04	1,23E-03	3,13E-03	5,36E-05	1,39E-04	MND	0,00E+00	6,03E-06	1,63E-04	0,00E+00	-3,73E-04						
EP-terrestrial	mol Ne	1,48E-02	5,17E-03	7,88E-03	2,79E-02	5,83E-04	1,26E-03	MND	0,00E+00	6,56E-05	1,72E-03	0,00E+00	-4,04E-03						
POCP ("smog") ³)	kg NMVOCe	1,37E-02	1,69E-03	1,72E-03	1,72E-02	2,40E-04	7,29E-04	MND	0,00E+00	2,70E-05	4,26E-04	0,00E+00	-2,16E-03						
ADP-minerals & metals ⁴)	kg Sbe	2,14E-05	5,00E-07	2,41E-06	2,43E-05	1,33E-07	9,84E-07	MND	0,00E+00	1,50E-08	6,93E-08	0,00E+00	-1,29E-06						
ADP-fossil resources	MJ	7,60E+01	2,88E+00	1,11E+01	9,01E+01	6,94E-01	3,67E+00	MND	0,00E+00	7,81E-02	2,58E-01	0,00E+00	-1,44E+01						
Water use ⁵⁾	m³e depr.	5,35E-01	1,32E-02	9,14E-01	1,46E+00	3,43E-03	6,26E-02	MND	0,00E+00	3,86E-04	6,70E-02	0,00E+00	-2,19E-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 lonizing 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, PEF

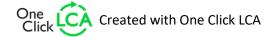
Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	В3	B4	B5	В6	B7	C1	C2	C3	C4	D
Particulate matter	Incidence	5,90E-08	1,77E-08	2,16E-08	9,83E-08	4,79E-09	4,39E-09	MND	0,00E+00	5,39E-10	1,72E-09	0,00E+00	-1,23E-08						
Ionizing radiation ⁶⁾	kBq	1,71E-01	2,31E-03	3,09E-01	4,82E-01	6,05E-04	1,93E-02	MND	0,00E+00	6,80E-05	2,89E-04	0,00E+00	-3,11E-01						
Ecotoxicity (freshwater)	CTUe	5,91E+00	3,75E-01	8,20E+00	1,45E+01	9,82E-02	6,14E-01	MND	0,00E+00	1,10E-02	4,94E-01	0,00E+00	-8,08E-01						
Human toxicity, cancer	CTUh	5,20E-10	3,56E-11	5,01E-10	1,06E-09	7,89E-12	4,73E-11	MND	0,00E+00	8,88E-13	7,74E-11	0,00E+00	-4,42E-10						
Human tox. non-cancer	CTUh	2,02E-08	1,67E-09	7,68E-09	2,96E-08	4,49E-10	1,44E-09	MND	0,00E+00	5,06E-11	3,72E-09	0,00E+00	-2,74E-09						
SQP ⁷⁾	-	7,19E+00	2,46E+00	3,33E+01	4,29E+01	6,99E-01	1,77E+00	MND	0,00E+00	7,87E-02	6,87E-02	0,00E+00	-3,40E+01						

⁶⁾ EN 15804+A2 disclaimer for Ionizing 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	А3	A1-A3	A4	A5	B1	B2	В3	B4	B5	В6	B7	C1	C2	C3	C4	D
Renew. PER as energy ⁸⁾	MJ	1,93E+00	3,66E-02	4,01E+00	5,97E+00	9,51E-03	3,22E-02	MND	0,00E+00	1,07E-03	6,30E-03	0,00E+00	-4,30E+00						
Renew. PER as material	MJ	4,96E-02	0,00E+00	3,50E+00	3,55E+00	0,00E+00	-3,55E+00	MND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	-3,52E+00						
Total use of renew. PER	MJ	1,98E+00	3,66E-02	7,51E+00	9,52E+00	9,51E-03	-3,52E+00	MND	0,00E+00	1,07E-03	6,30E-03	0,00E+00	-7,82E+00						
Non-re. PER as energy	MJ	4,25E+01	2,88E+00	1,02E+01	5,56E+01	6,94E-01	3,26E-01	MND	0,00E+00	7,81E-02	-3,85E+01	0,00E+00	-1,42E+01						
Non-re. PER as material	MJ	3,35E+01	0,00E+00	3,42E-01	3,38E+01	0,00E+00	-6,67E-01	MND	0,00E+00	0,00E+00	-3,32E+01	0,00E+00	-2,32E-01						
Total use of non-re. PER	MJ	7,60E+01	2,88E+00	1,06E+01	8,95E+01	6,94E-01	-3,41E-01	MND	0,00E+00	7,81E-02	-7,17E+01	0,00E+00	-1,44E+01						
Secondary materials	kg	7,56E-02	1,25E-03	1,53E-02	9,21E-02	2,95E-04	3,73E-03	MND	0,00E+00	3,32E-05	4,38E-04	0,00E+00	-1,51E-02						
Renew. secondary fuels	MJ	4,35E-04	1,35E-05	1,20E-01	1,21E-01	3,75E-06	4,82E-03	MND	0,00E+00	4,22E-07	1,83E-06	0,00E+00	-1,19E-01						
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	1,42E-02	3,88E-04	9,55E-03	2,41E-02	1,03E-04	9,99E-04	MND	0,00E+00	1,15E-05	4,75E-04	0,00E+00	-6,36E-03						

⁸⁾ PER = Primary energy resources.





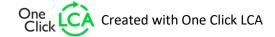


END OF LIFE – WASTE

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	8,84E-02	4,70E-03	2,08E-02	1,14E-01	1,18E-03	5,85E-03	MND	0,00E+00	1,32E-04	2,15E-02	0,00E+00	-1,72E-02						
Non-hazardous waste	kg	1,89E+01	8,39E-02	4,70E+01	6,60E+01	2,18E-02	2,71E+00	MND	0,00E+00	2,45E-03	1,05E+00	0,00E+00	-3,59E-01						
Radioactive waste	kg	4,35E-05	5,65E-07	1,13E-04	1,57E-04	1,48E-07	6,31E-06	MND	0,00E+00	1,67E-08	7,26E-08	0,00E+00	-6,71E-05						

END OF LIFE – OUTPUT FLOWS

Impact category	Unit	A1	A2	А3	A1-A3	A4	A5	B1	B2	В3	B4	B5	В6	B7	C1	C2	С3	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	7,13E-02	7,13E-02	0,00E+00	2,36E-01	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	9,96E-03	9,96E-03	0,00E+00	3,99E-04	MND	0,00E+00	0,00E+00	1,00E+00	0,00E+00	0,00E+00						
Exported energy	MJ	0,00E+00	0,00E+00	8,65E-02	8,65E-02	0,00E+00	1,03E+00	MND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	-1,94E+01						
Exported energy – Electricity	MJ	0,00E+00	0,00E+00	1,30E-02	1,30E-02	0,00E+00	1,56E-01	MND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	-2,92E+00						
Exported energy –	MJ	0,00E+00	0,00E+00	7,34E-02	7,34E-02	0,00E+00	8,79E-01	MND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	-1,64E+01						







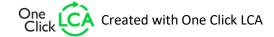
ENVIRONMENTAL IMPACTS - EN 15804+A1, CML / ISO 21930

Impact category	Unit	A1	A2	А3	A1-A3	A4	A5	B1	B2	В3	B4	B5	В6	B7	C1	C2	C3	C4	D
Global Warming Pot.	kg CO₂e	2,34E+00	2,03E-01	4,39E-01	2,98E+00	4,76E-02	2,61E-01	MND	0,00E+00	5,35E-03	2,62E+00	0,00E+00	-6,99E-01						
Ozone depletion Pot.	kg CFC ₋₁₁ e	8,72E-08	2,39E-09	8,40E-09	9,80E-08	5,63E-10	3,98E-09	MND	0,00E+00	6,34E-11	3,01E-10	0,00E+00	-2,99E-08						
Acidification	kg SO₂e	6,01E-03	1,34E-03	2,27E-03	9,63E-03	1,25E-04	4,08E-04	MND	0,00E+00	1,40E-05	2,33E-04	0,00E+00	-9,18E-04						
Eutrophication	kg PO ₄ ³e	2,36E-03	2,05E-04	4,66E-03	7,23E-03	3,03E-05	2,96E-04	MND	0,00E+00	3,41E-06	7,77E-05	0,00E+00	-3,14E-03						
POCP ("smog")	kg C ₂ H ₄ e	7,08E-04	8,36E-05	1,58E-04	9,49E-04	1,11E-05	3,97E-05	MND	0,00E+00	1,25E-06	1,50E-05	0,00E+00	-1,40E-04						
ADP-elements	kg Sbe	2,11E-05	4,88E-07	2,38E-06	2,39E-05	1,30E-07	9,71E-07	MND	0,00E+00	1,46E-08	5,45E-08	0,00E+00	-1,27E-06						
ADP-fossil	MJ	7,31E+01	2,84E+00	1,06E+01	8,65E+01	6,85E-01	3,53E+00	MND	0,00E+00	7,70E-02	2,53E-01	0,00E+00	-1,00E+01						

ENVIRONMENTAL IMPACTS – GWP-GHG - THE INTERNATIONAL EPD SYSTEM

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	2,37E+00	2,05E-01	4,25E-01	3,00E+00	4,79E-02	2,61E-01	MND	0,00E+00	5,38E-03	2,62E+00	0,00E+00	-7,05E-01						

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.

Sarah Curpen, as an authorized verifier acting for EPD Hub Limited. 23.05.2025





