

ENVIRONMENTAL PRODUCT DECLARATION

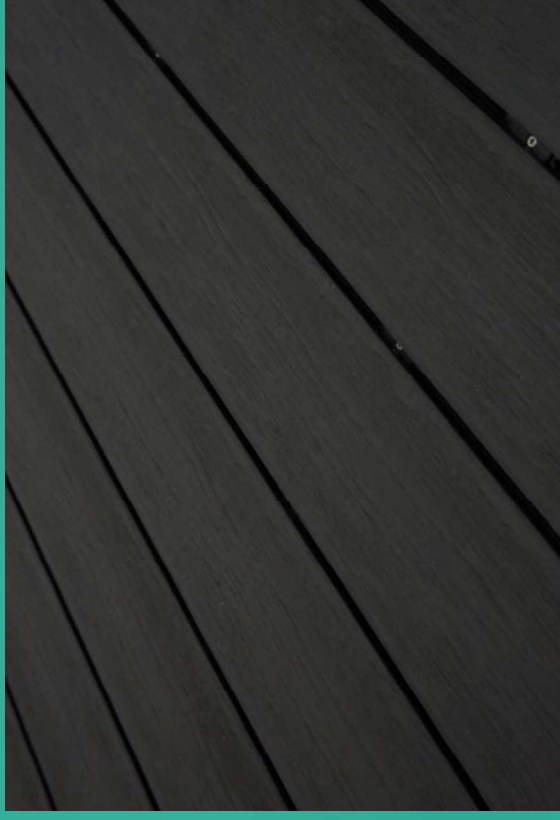
IN ACCORDANCE WITH EN 15804+A2 & ISO 14025 / ISO 21930

WOOD PLASTIC COMPOSITE (WPC) PRODUCTS

WIMEX A/S

Programme: The International EPD® System, www.environdec.com	Programme operator: EPD International AB	EPD registration number: S-P-11627	Publication date: 2024-05-20	Valid until: 2029-05-20	Geographical scope: China and EU
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An EPD should provide current information and may be updated if conditions change. The stated validity is therefore subject to the continued registration and publication at www.environdec.com.



GENERAL INFORMATION

COMPANY INFORMATION

Owner of the EPD	WIMEX A/S
Address	Strandvejen 16 DK-7800 Skive Denmark
Contact details	Henrik Danielsen, hd@moland.dk
Website	www.wimex.dk

PRODUCT IDENTIFICATION

Product name	Wood plastic composite (WPC) products
Additional label(s)	None
Product number / reference	1717193039-1770194033
Place(s) of production	China
CPC code	36910 Floor coverings of plastics, in rolls or in the form of tiles

EPD INFORMATION

EPD programme	The International EPD® System
Address	EPD International AB Box 210 60, SE-100 31 Stockholm, Sweden
E-mail	info@environdec.com
EPD standards	This EPD is in accordance with EN 15804:2012 +A2:2019/AC:2021 and ISO 14025:2010 standards.
Product category rules	The CEN standard EN 15804 serves as the core PCR. In addition, the Int'l EPD System PCR 2019:14 Construction products, version 1.3.3 (2024-03-01)
EPD author	Shuting Fan, Intertek
EPD verification	Independent verification of this EPD and data, according to ISO 14025: ☐ Internal certification ☒ External verification
Verification date	2024-04-24
EPD verifier	Rui Wang, IVL Swedish Environmental Research Institute
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The EPD owner has the sole ownership, liability, and responsibility for the EPD. EPDs within the same product category but registered in different EPD programmes, or not compliant with EN 15804, may not be comparable. For two EPDs to be comparable, they must be based on the same PCR (including the same version number) or be based on fully-aligned PCRs or versions of PCRs; cover products with identical functions, technical performances and use (e.g. identical declared/functional units); have equivalent system boundaries and descriptions of data; apply equivalent data quality requirements, methods of data collection, and allocation methods; apply identical cut-off rules and impact assessment methods (including the same version of characterisation factors); have equivalent content declarations; and be valid at the time of comparison. For further information about comparability, see EN 15804 and ISO 14025.

PRODUCT INFORMATION

PRODUCT DESCRIPTION

Wood Plastic Composites (WPC) refers to a type of composite material made from polyethylene (PE/HDPE), mixed with a certain proportion of wood powder, and other additives, and then produced through plastic processing processes such as extrusion, moulding, and injection moulding.(30%PE/HDPE +60%WOOD POWDER+10%ADDITIVES)

PRODUCT APPLICATION

WPC Products: Decking / Fencing / Cladding.

TECHNICAL SPECIFICATIONS

WPC DECKING: 140*25*L / 140*22*L / 146*23*L mm

WPC FENCING: 160*16*L / 180*16*L mm

WPC ACCESSROY: 40*60*L / 38*38*L mm

PRODUCT STANDARDS

GB/T 24508-2020, LY/T 3274-2021, ISO 9001:2005, ISO 14001:2015, ISO 45001:2018, GB/T 29490-2013, EN 15534-1:2014

PHYSICAL PROPERTIES OF THE PRODUCT

No.	Clause	Test Item	Test Method	Test result
1	EN 13501-1 Class Cfl	Fire reaction	ISO 9235-1 & ISO 11925-2	Cfl-S1
2	EN 15534-4 4.5.5.3	Swelling and water absorption (28 days immersion)	EN 15534-1 8.3.1	Mean Swelling: 0.5% in thickness 0.1% in width 0.1% in length Water absorption: Mean: 0.5%
3	EN 15534-4 4.5.7.6	Resistance to indentation	EN 15534-1 7.5	Brinell hardness: Mean value: 104Mpa Rate of elastic recovery: Mean value: 74%
4	ASTM D7031 5.18	Linear thermal expansion	ASTM D695	42.5 x 10 ⁻³ /°C
5	ASTM D638	Tensile strength (LW&CW) % Elongation (LW&CW) Tensile modulus (LW&CW) Stress-strain graph	ASTM D638	Mean value: 23.20 Mpa
6	ASTM D7031 5.5	Bending	ASTM D4751	MOR Mean value: 39.3 Mpa MOE Mean value: 4168 Mpa
7	ASTM D7032 4.5	Temperature and moisture effects	ASTM D7032.D6109	168 hours at a temperature of 50C MOR Mean value: 30.3 Mpa MOE Mean value: 3145 Mpa 168 hours at a temperature of -29C MOR Mean value: 55.2Mpa MOE Mean value: 7306Mpa
8	ASTM D7032 4.6	UV resistance	ASTM G154, D6109	Grey Scale: 4
9	ASTM D7032 4.4	Flexural Test	ASTM D6109	MOR Mean value: 37.9 Mpa MOE Mean value: 4348 Mpa
10	ASTM D7032 4.7	Freeze-Thaw resistance	ASTM D7032.D6109	MOR Mean value: 36.7 Mpa MOE Mean value: 4386 Mpa
11	ASTM D792	Density and specific gravity	ASTM D792	1.317 g/cm3
12	EN 15534-1 7.1.1	Impact resistance (applicable to compounds)	EN ISO 179-1	Mean value: 4.4 KJ/m2
13	ASTM D7031 5.11	Mechanical Fastener Holding	ASTM D7031 D1781 σCD1037	Mean value: 6519N
14	ASTM D7031 5.7	Compression Parallel to L	ASTM D7031 D4761	Mean value: 41.5 Mpa
15	ASTM D7031 5.8	Compression Perpendicular to L	ASTM D7031 D143	Mean value: 58.40 Mpa

ADDITIONAL TECHNICAL INFORMATION

Further information can be found at www.wimex.dk

PRODUCT RAW MATERIAL AND PACKAGING COMPOSITION

Materials of Product and packaging for 1kg WPC product

Product components	Weight, kg	Post-consumer material, weight-%	Renewable material, weight-%	Country / Region of origin
Hardwood fiber	0.6	0	100	China
Recycled HDPE	0.3	100	0	China
ADDITIVES (COUPLING AGENT, PIGMENTS, PROCESS AIDS, UV	0.1	0	0	China
TOTAL product weight	1	30	60	China
Packaging materials	Weight, kg	Post-consumer material, weight-%	Renewable material, weight-%	Country / Region of origin
Wood pallet	0.025	0	100	China
Packaging film	0.0012	0	0	China
Cardboard	0.0005	0	0	China
TOTAL packaging	0.0267	0	94	China
Dangerous substances from the candidate list of SVHC for authorisation	EC No.	CAS No.	Weight-% per declared unit	
None	None	None	0	

PRODUCT LIFE-CYCLE

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. The study also considers the material losses occurring during the manufacturing processes as well as handling of waste formed in the production processes at the manufacturing facilities.

The product stage of the WPC is divided into 3 modules: A1 “Raw material and supply”, A2 “Transport to the manufacturer” and A3 “Manufacturer”. The aggregation of the modules A1, A2 and A3 is a possibility considered by the EN 15804 standard. This rule is applied in this EPD.

A1, Raw material supply takes into account the extraction and processing of all raw materials and energy which occur upstream to the studied manufacturing process. Specifically, WPC raw material supply covers sourcing of wood fibre, HDPE and additives. Electricity is taken account for China.

A2, Transport to the manufacturer. The transportation of the raw materials to the manufacturing site is studied in this module.

A3, Manufacturing. Manufacturing covers all processes linked to production, include: Mixing of all raw materials (including plant fibre, PE and additives); pelletizing; co-extrusion moulding; water cooling; polishing and cutting process. Then products are packaged.

The environmental profile of these energy carriers is modelled for local conditions.

Packaging-related flows in the production process are included in the manufacturing module, i.e. wood pallet, packaging film and cardboard. Apart from production of packaging material, the supply and transport of packaging material are also considered in the LCA model.

Manufacturing address: Jiangsu province, China

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 construction process is divided into 2 modules: A4 “Transport to the building site” and A5 “Installation in the building”.

A4, Transport to the building site. This module includes transport from the production gate to the building site. Transport is calculated on the basis of a scenario with the parameters described. The average transportation distance from production plant to building site is assumed as 230 km transported by lorry from plant to Shanghai port and 19447 km transported by ship from Shanghai port to Rotterdam, Netherlands. The distance between port to the installation site is estimated a conservative data 500km.

A5 Installation in the building occur in this stage. This module includes product installation losses and energy consumption during the installation of product, i.e. the additional production processes to compensate the loss. And the waste processing which occur in this stage.

Materials loss during installation are estimated as 1%.

The end of life of packaging are considered as, with reference to EU waste management:

Wood pallet: recycling 32.2%, landfill 19%, incineration 48.8%.

Plastic film: recycling 39.7%, landfill 19%, incineration 41.3%.

Cardboard: recycling 82.5%, landfill 19%, incineration 1.5%.

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)

The end-of life stage is divided into 4 modules: C1 “De-construction, demolition”, C2 “Transport to waste processing”, C3 “Waste processing for reuse, recovery and/or recycling”, C4 “Disposal”.

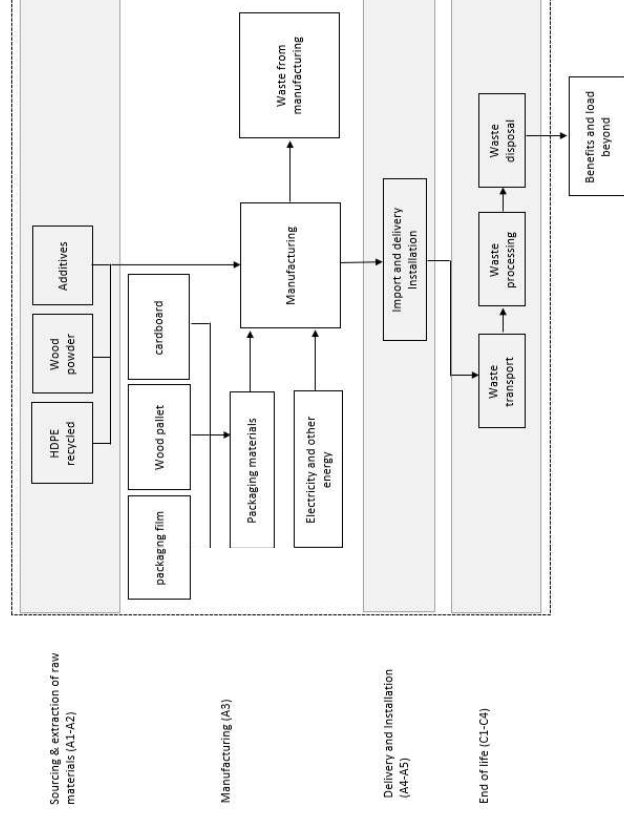
C1 De-construction, demolition. For WPCs, the energy consumption considered as 0.0015kWh/declared unit.

C2 Transport to waste processing. It is estimated that there is no mass loss during the use of the product, therefore the end-of-life product is assumed that it has the same weight with the declared product. All of the end-of-life product is assumed to be transported as separate construction waste to the closest facilities. Transportation distance to the closest disposal area is estimated as 200 km and the transportation method is lorry which is common.

C3 Waste processing for reuse, recovery and/or recycling. It is assumed that 90% of the product was sent to recycled

C4 Disposal. It is assumed that 10% of the product was sent to landfill.

MANUFACTURING PROCESS



LIFE-CYCLE ASSESSMENT

LIFE-CYCLE ASSESSMENT INFORMATION

Period for data	2022
DECLARED UNIT	
Declared unit	1kg
Mass per functional unit	1kg
Reference service life	20 years

BIOGENIC CARBON CONTENT

Product's biogenic carbon content at the factory gate

Biogenic carbon content in product, kg C	0.30
Biogenic carbon content in packaging, kg C	0.00996

SYSTEM BOUNDARY

The system boundary is the Cradle to gate with options, modules C1–C4, module D and with optional modules, including: A1–A3 product stage, A4–A5 construction process stage, C1–C4 end-of-life stage, and D benefits and loads beyond the system boundary.

Modules declared, geographical scope, share of specific data (in GWP-GHG indicator) and data variation:

	Product stage			Construction process stage		Use stage							End of life stage				Resource recovery stage
	Raw material supply	Transport	Manufacturing	Transport	Construction installation	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	Deconstruction demolition	Transport	Waste processing	Disposal	
Module	A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	Reuse-Recovery-Recycling-potential
Modules declared	X	X	X	X	X	ND	ND	ND	ND	ND	ND	ND	X	X	X	X	
Geography	CH	CH	CH	CH to EU	EU	ND	ND	ND	ND	ND	ND	ND	EU	EU	EU	EU	
Specific data used	>90%			-	-	-	-	-	-	-	-	-	-	-	-	-	
Variation – products	0%			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Variation – sites	0%			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Reuse-Recovery-Recycling-potential																	
D																	
X																	
EU																	
-																	
-																	
-																	

CUT-OFF CRITERIA

The study does not exclude any modules or processes which are stated mandatory in the EN 15804:2012 +A2:2019/AC:2021 and the applied PCR. The study does not exclude any hazardous materials or substances.

The clicks used during installation are 0.002kg/declare unit during installation. It is not more than 1% of each unit process mass and the total excluded input and output flows do not exceed 5% of mass. So considered to be cut-off flow. 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.

In this study, as per EN 15804, allocation is conducted in the following order;

1. Allocation should be avoided.
2. Allocation should be based on physical properties (e.g., mass, volume) when the difference in revenue is small.
3. Allocation should be based on economic values.

Allocation used in Ecoinvent 3.8 environmental data sources follows the methodology 'allocation, cut-off by classification'. This methodology is in line with the requirements of the EN 15804-standard.

For data sets in this study, the allocation of the inputs is generally carried out via the mass. The consumption and transportation of raw materials was allocated by mass ratio.

For data sets in this study, the allocation of the inputs is generally carried out via the mass. The consumption and transportation of raw materials was allocated by mass ratio.

In this study one allocation occurs on WPC production, in allocating the input and output, i.e. energy within the production site such as electricity and emission such as off gas, among the various series of WPC products, allocation is done via total production (WPC products with the unit as kg) of all products produced on a yearly average.

During the production process of WPC, there are no other by-products produced from the production line, hence there is no occasion that requires allocation for multi-output processes.

For this project, there is only one production site. So, there is no allocation among plants.

ENVIRONMENTAL IMPACT DATA OF WPC PER DECLARED UNIT

CORE ENVIRONMENTAL IMPACT INDICATORS – EN 15804+A2, PEF

Impact category	Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
GWP – total	kg CO ₂ eq.	-1,21E-01	2,58E-01	5,29E-02	ND	ND	ND	ND	ND	ND	ND	1,10E-03	1,89E-02	1,05E-01	5,27E-04	0,00E+00
GWP – fossil	kg CO ₂ eq.	9,85E-01	2,58E-01	1,64E-02	ND	ND	ND	ND	ND	ND	ND	1,10E-03	1,88E-02	9,68E-02	5,27E-04	0,00E+00
GWP – biogenic	kg CO ₂ eq.	-1,11E+00	7,53E-05	3,65E-02	ND	ND	ND	ND	ND	ND	ND	3,66E-06	7,26E-06	9,64E-01	1,07E-01	0,00E+00
GWP – Luluc	kg CO ₂ eq.	5,98E-04	1,63E-04	1,08E-05	ND	ND	ND	ND	ND	ND	ND	2,30E-06	6,92E-06	1,29E-04	4,97E-07	0,00E+00
ODP	kg CFC-11 eq.	4,60E-08	5,35E-08	1,23E-09	ND	ND	ND	ND	ND	ND	ND	3,70E-11	4,32E-09	3,24E-09	2,13E-10	0,00E+00
AP	mol H ⁺ eq.	5,31E-03	6,40E-03	1,30E-04	ND	ND	ND	ND	ND	ND	ND	5,57E-06	7,95E-05	3,56E-04	4,95E-06	0,00E+00
EP-freshwater	kg P eq.	2,51E-05	1,25E-06	3,45E-07	ND	ND	ND	ND	ND	ND	ND	5,75E-08	1,54E-07	2,60E-06	5,52E-09	0,00E+00
EP-marine	kg N eq.	1,03E-03	1,59E-03	2,98E-05	ND	ND	ND	ND	ND	ND	ND	9,40E-07	2,36E-05	1,03E-04	1,71E-06	0,00E+00
EP-terrestrial	mol N eq.	1,11E-02	1,77E-02	3,24E-04	ND	ND	ND	ND	ND	ND	ND	1,05E-05	2,61E-04	1,03E-03	1,89E-05	0,00E+00
POCP	kg NMVOC eq.	3,41E-03	4,64E-03	9,08E-05	ND	ND	ND	ND	ND	ND	ND	2,83E-06	8,34E-05	3,21E-04	5,48E-06	0,00E+00
ADP-minerals & metals*	kg Sb eq.	5,51E-06	4,24E-07	6,78E-08	ND	ND	ND	ND	ND	ND	ND	5,13E-09	4,40E-08	8,84E-07	1,21E-09	0,00E+00
ADP-fossil*	MJ	1,20E+01	3,41E+00	1,85E-01	ND	ND	ND	ND	ND	ND	ND	1,43E-02	2,82E-01	6,17E-01	1,44E-02	0,00E+00
WDP*	m ³	2,54E-01	1,17E-02	3,95E-03	ND	ND	ND	ND	ND	ND	ND	3,00E-04	1,26E-03	1,89E-02	4,58E-05	0,00E+00
Acronyms	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 potential of the stratospheric ozone layer; AP = Acidification potential. Accumulated Exceedance; EP-freshwater=Eutrophication potential, fraction of nutrients reaching freshwater end compartment; EP-marine = Eutrophication potential, fraction of nutrients reaching marine end compartment; EP-terrestrial = Eutrophication potential, Accumulated Exceedance; POCP = Formation potential of tropospheric ozone; ADP-minerals&metals = Abiotic depletion potential for non-fossil resources; ADP-fossil=Abiotic depletion for fossil resources potential; WDP - Water (user) deprivation potential, deprivation-weighted water consumption															

*Disclaimer: The results of this environmental impact indicator shall be used with care as the uncertainties of these results are high or as there is limited experience with the indicator.

ENVIRONMENTAL IMPACTS – GWP-GHG - THE INTERNATIONAL EPD SYSTEM

Impact category	Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
GWP –GHG	kg CO ₂ eq.	9,94E-01	2,58E-01	1,64E-02	ND	ND	ND	ND	ND	ND	ND	1,10E-03	1,88E-02	9,68E-02	5,27E-04	0,00E+00

USE OF RESOURCES

Impact category	Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Renew. PER as energy ⁶⁾	MJ	2,71E+00	2,81E-02	2,98E-02	ND	ND	ND	ND	ND	ND	ND	1,85E-03	3,18E-03	6,38E-02	1,25E-04	0,00E+00
Renew. PER as material	MJ	5,52E+00	0,00E+00	-3,21E-01	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	-4,67E+00	-5,19E-01	0,00E+00
Total use of renew. PER	MJ	8,23E+00	2,81E-02	-2,91E-01	ND	ND	ND	ND	ND	ND	ND	1,85E-03	3,18E-03	-4,61E+00	-5,19E-01	0,00E+00
Non-re. PER as energy	MJ	1,02E+01	3,41E+00	1,68E-01	ND	ND	ND	ND	ND	ND	ND	1,43E-02	2,82E-01	6,17E-01	1,44E-02	0,00E+00
Non-re. PER as material	MJ	1,48E+01	0,00E+00	-7,18E-02	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	-1,33E+01	-1,47E+00	0,00E+00
Total use of non-re. PER	MJ	2,50E+01	3,41E+00	9,61E-02	ND	ND	ND	ND	ND	ND	ND	1,43E-02	2,82E-01	-1,26E+01	-1,46E+00	0,00E+00
Secondary materials	kg	3,30E-01	1,37E-03	3,33E-03	ND	ND	ND	ND	ND	ND	ND	1,31E-06	7,83E-05	2,85E-03	3,03E-06	0,00E+00
Renew. secondary fuels	MJ	8,41E-03	5,85E-06	8,43E-05	ND	ND	ND	ND	ND	ND	ND	9,12E-09	7,90E-07	2,37E-05	7,93E-08	0,00E+00
Non-ren. secondary fuels	MJ	0,00E+00	0,00E+00	0,00E+00	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Use of net fresh water	m3	6,14E-03	2,87E-04	7,48E-05	ND	ND	ND	ND	ND	ND	ND	8,39E-06	3,65E-05	3,98E-04	1,58E-05	0,00E+00

PER abbreviation stands for primary energy resources

END OF LIFE – WASTE

Impact category	Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Hazardous waste	kg	1,10E-01	4,62E-03	1,28E-03	ND	ND	ND	ND	ND	ND	ND	9,21E-05	3,74E-04	0,00E+00	0,00E+00	0,00E+00
Non-hazardous waste	kg	1,01E+00	4,92E-02	3,19E-02	ND	ND	ND	ND	ND	ND	ND	2,47E-03	6,14E-03	0,00E+00	1,00E-01	0,00E+00
Radioactive waste	kg	1,81E-05	2,38E-05	5,42E-07	ND	ND	ND	ND	ND	ND	ND	4,40E-08	1,89E-06	0,00E+00	0,00E+00	0,00E+00

END OF LIFE – OUTPUT FLOWS

Impact category	Unit	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	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Materials for recycling	kg	4,08E-02	0,00E+00	1,94E-02	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	9,00E-01	0,00E+00	0,00E+00
Materials for energy rec	kg	0,00E+00	0,00E+00	1,28E-02	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Exported energy	MJ	0,00E+00	0,00E+00	1,36E-01	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00

Disclaimer:

1. The estimated impact results are only relative statements, which do not indicate the endpoints of the impact categories, exceeding threshold values, safety margins and/or risks.
2. If module C is included in the EPD, a disclaimer discouraging the use of the results of modules A1-A3 (A1-A5 for services) without considering the results of module C.
3. EN 15804 reference package based on EF 3.0

SCENARIO DOCUMENTATION

WIMEX LCA background report 2024-04-24

Manufacturing energy scenario documentation

Scenario parameter	Value
Electricity data source and quality	LCA study for market group for electricity, medium voltage, in China. Ecoinvent, year: 2021.
Electricity kg CO _{2e} / kWh	1.06
District heating data source and quality	LCA study for Market for heat, district or industrial, other than natural gas, world. Ecoinvent, year: 2021.
District heating kg CO _{2e} / MJ	0.11

BIBLIOGRAPHY

ISO 14025:2010 Environmental labels and declarations – Type III environmental declarations. Principles and procedures.

ISO 14040:2006 Environmental management. Life cycle assessment. Principles and frameworks.

ISO 14044:2006 Environmental management. Life cycle assessment. Requirements and guidelines.

Ecoinvent 3.8 (Allocation, cut-off, EN 15804) and One Click LCA database.

EN 15804:2012+A2:2019/AC:2021 Sustainability in construction works – Environmental product declarations – Core rules for the product category of construction products.

Int'l EPD System PCR 2019:14 Construction products, version 1.3.3 (2023-12-08)



ABOUT THE COMPANY

Wimex is a Danish supplier of building materials for outdoor use, mainly terraces and fences. The spirit in Wimex is framing good life and Wimex aims to put coziness in pride of place. With Wimex you will get WPC products in a high quality which may last for many years.

EPD AUTHOR AND CONTRIBUTORS

Owner of the EPD	WIMEX A/S
EPD author	Shuting Fan, Intertek
EPD verifier	Rui Wang, IVL Swedish Environmental Research Institute
EPD program operator	EPD International AB
Background data	This EPD is based on Ecoinvent 3.8 (Allocation, cut-off, EN 15804) and One Click LCA databases.
LCA software	The LCA and EPD have been created using One Click LCA Pre-Verified EPD Generator for Construction products

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 EN 15804, 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 background report (project report) for this EPD

Why does verification transparency matter? [Read more online.](#)

VERIFICATION OVERVIEW

Following independent third party has verified this specific EPD:

EPD verification information	Answer
Independent EPD verifier	Rui Wang, IVL Swedish Environmental Research Institute
EPD verification started on	2024-04-24
EPD verification completed on	2024-05-20
Approver of the EPD verifier	The International EPD System

Author & tool verification	Answer
EPD author	Shuting Fan, Intertek
EPD author training completion	2022-11-04
EPD Generator module	Construction products
Independent software verifier	Ugo Pretato, Studio Fieschi & soci
Software verification date	2021-05-11

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 EN 15804:2012+A2:2019/AC:2021.

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.

Rui Wang, IVL Swedish Environmental Research Institute

