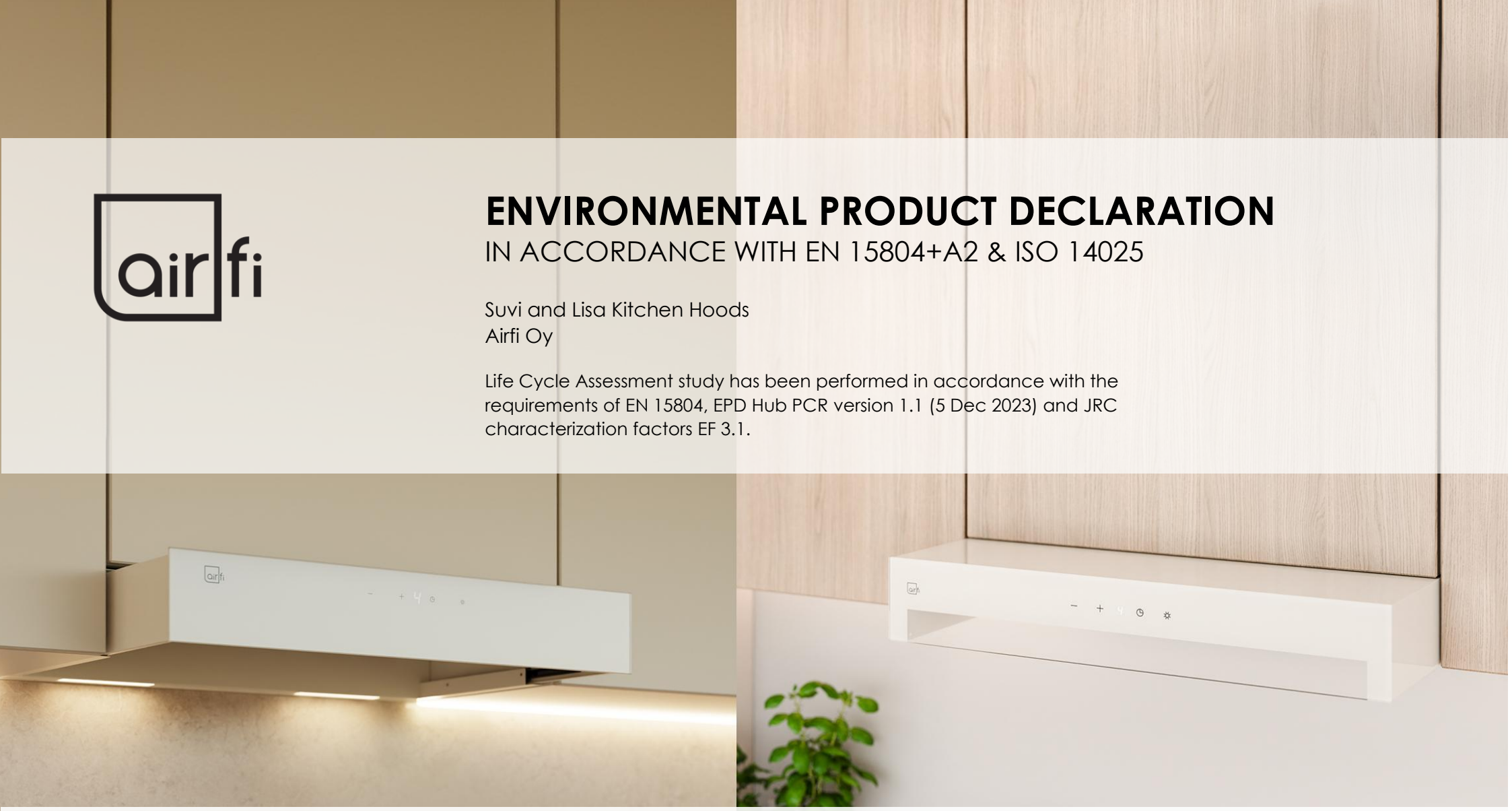
ENVIRONMENTAL PRODUCT DECLARATION

IN ACCORDANCE WITH EN 15804+A2 & ISO 14025

Suvi and Lisa Kitchen Hoods
Airfi Oy

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.



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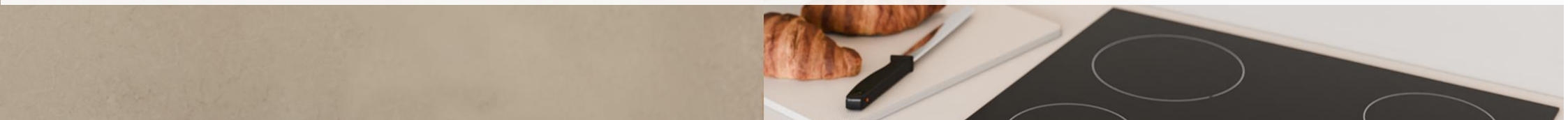


GENERAL INFORMATION

MANUFACTURER

Manufacturer	Airfi Oy
Address	Piilipuunkatu 11, 21200, Raisio, Finland
Contact details	info@airfi.fi
Website	www.airfi.fi

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 1.1, 5 Dec 2023
Sector	Construction product
Category of EPD	Third party verified EPD
Scope of the EPD	Cradle to gate with options A4, A5, B6 and modules C1-C4, D
EPD author	Izabella Lundberg
EPD verification	Independent verification of this EPD and data, according to ISO 14025: ☐ Internal verification ☑ External verification
EPD verifier	Abderazak Guiz, 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	Suvi and Lisa Kitchen Hoods
Additional labels	Lisa-CE50w, Lisa-CE60w, Lisa-CF65w, Suvi-CF50w, Suvi-CF60w and Suvi-CF65w. Lisa-CF50s, Lisa-CF60s, Lisa-CF65s, Suvi-CF50s, Suvi-CF60s and Suvi-CF65s. Lisa-CF50b, Lisa-CF60b, Lisa-CF65b, Suvi-CF50b, Suvi-CF60b and Suvi-CF65b.
Product reference	20000022
Place of production	Piilipuunkatu 11, 21200 Raisio, Finland
Period for data	1.1.2022-31.12.2022
Averaging in EPD	Multiple products
Variation in GWP-fossil for A1-A3	-4.51 / 23.58 %

ENVIRONMENTAL DATA SUMMARY

Declared unit	One kilogram of Lisa-CF65w
Declared unit mass	1 kg
GWP-fossil, A1-A3 ($kgCO_2e$)	7,76E+00
GWP-total, A1-A3 ($kgCO_2e$)	7,77E+00
Secondary material, inputs (%)	11,1
Secondary material, outputs (%)	100
Total energy use, A1-A3 (kWh)	33
Net freshwater use, A1-A3 (m^3)	0,09

PRODUCT AND MANUFACTURER

ABOUT THE MANUFACTURER

Airfi Oy is a Finnish company driven by a passion for designing and manufacturing the most energy-efficient air handling units (AHUs) on the market. Our strong commitment to sustainability and innovation is evident in every aspect of our operations.

Founded in Raisio, Finland, in 2018, Airfi has quickly established itself as a pioneer in the ventilation industry. Our team of experts is dedicated to developing cutting-edge AHU solutions that prioritize energy efficiency, reliability, and user-friendliness. We take pride in our self-learning frost protection system (AFPS™), which demonstrates our focus on technological advancement. Works in every environment for the environment.

PRODUCT DESCRIPTION

The Airfi range of kitchen hoods offers versatile solutions for creating fresh air in kitchens that require superior odour extraction combined with stylish design. Airfi kitchen hoods are compatible with both centralised and decentralised ventilation systems, allowing seamless control of either ventilation units or AC/EC exhaust fans.

The unified design of the hoods enables them to integrate with a variety of technical setups, yet their function, operation, and appearance can be easily customised according to the specific project and customer needs. An Airfi kitchen hood is an excellent choice in all kinds of buildings, in a classic or modern style.

Airfi kitchen hoods are energy-efficient, as they do not have their own motor, minimising energy consumption. Our technical solutions ensure the hoods maintain high energy efficiency and offer a sustainable way of ventilation in kitchens.

Designed to withstand the challenging Nordic climate, these hoods operate effectively in all conditions. With industry-leading fume extraction and quiet operation sound, Airfi hoods provide users with a comfortable experience and fresh kitchen air, free from cooking odours.

Further information can be found at www.airfi.fi.

PRODUCT RAW MATERIAL MAIN COMPOSITION

Raw material category	Amount, mass %	Material origin
Metals	87,0	World
Minerals	6,2	World
Fossil materials	6,6	World
Bio-based materials	0,2	World

BIOGENIC CARBON CONTENT

Product's biogenic carbon content at the factory gate

Biogenic carbon content in product, kg C	0,00038
Biogenic carbon content in packaging, kg C	0,00059

FUNCTIONAL UNIT AND SERVICE LIFE

Declared unit	One kilogram of Lisa-CF65w
Mass per declared unit	1 kg
Functional unit	One kilogram of Lisa kitchen hood for kitchen odour extraction.
Reference service life	25 years

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		
×	×	×	×	×	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.

A1

Environmentally friendly practices are at the core of Airfi Ltd's operations. The degree of domesticity of the products is very high. In our material choices, we favor locally produced options and environmentally friendly materials. In addition to taking the environmental impact of materials into consideration, we have also sought to choose materials that will last for the entire life cycle of the building.

We are aware of the environmental impacts of sheet metal and have sought, as far as possible, to use a better option for the environment. The coating used in Jetskin® sheet metal is a more environmentally friendly option compared to electro-galvanized or hot-dip galvanized sheet metal. Of the total amount of sheet metal used in Airfi products, jetskin® constitutes around 45 % of the total amount.

We only use cardboard to package products in our factory. The proportion of recycled fiber in the cardboard we use has been increasing every year.

We strive towards minimizing the amount of waste produced in our factory, which is why the production lines generate practically no waste material anymore.

A2

Whenever possible, we use local carriers from the surrounding areas to transport sub-components of Airfi products. Some carriers have already committed to carbon neutral transport of freight. Where possible, products from other European countries will be shipped to Airfi Ltd by road in larger shipments, thus reducing the contribution of freight to the total emissions of the product.

A3

In our production, efforts have been made to minimize the amount of waste generated, which means that there is practically no waste material being produced anymore. Some steel cutting waste is generated and fully recycled. In our factory, production consists largely of final assembly, which means that the environmental impact of manufacturing is low. The electricity used by the company is environmentally friendly hydroelectricity,

and the production facilities are heated with district heating from Turku Energia, which produces largely renewable energy.
We use only cardboard as a packaging material for our products, which is also partly made from recycled raw materials.

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.

A4

Airfi operates mainly in the Finnish market, which means that the delivery and use of the products takes place mainly in Finland. Construction is mainly concentrated in Southern Finland. Due to the central location of the factory, an average transport distance of 150 km has been calculated. This calculation is based on Airfi Ltds domestic traffic reports as well as on driving estimates provided by locally used transport companies.

A5

There is no material waste during the installation of the products. The packaging materials of the products are fully recyclable. No accessories, other supplies or energy consuming tools are required during installation.

PRODUCT USE AND MAINTENANCE (B1-B7)

The lifetime of a kitchen hood unit is calculated based on the 25-year reference service life generally used in the industry. Airfi kitchen hood units are designed to last a long time. The frame structure is designed to last the entire life cycle of the building, although all calculations are made according to the 25-year reference service life. Any parts that may break can be easily replaced, but the kitchen hood unit will not be subject to regular replacement of parts. The kitchen hood unit does not need replacement grease filters as they are washable, in accordance with the instructions in the user manual. Depending on the location of the property and other factors, less frequent replacement may be possible.

The in-service electricity consumption has been calculated based on actual emissions and average consumption of grid electricity in Finland.
Estimated energy use is 6,57 kWh/a with an estimated 1h daily use. The estimated energy use takes into account the consumption of all parts including led lamps. The dataset used for the energy is a Finnish low voltage electricity average market dataset with a GWP total of 0.22 kg CO2e / kWh.
The electricity consumption is dependent on the amount of use of the kitchen hood.
Air, soil, and water impacts during the use phase have not been studied.

PRODUCT END OF LIFE (C1-C4, D)

C1

The impact of deconstruction/dismantling is assumed to be minimal, as kitchen hood units will be manually removed from buildings beforehand.

C2

Transport to waste processing facilities was calculated assuming a distance of 50 km.

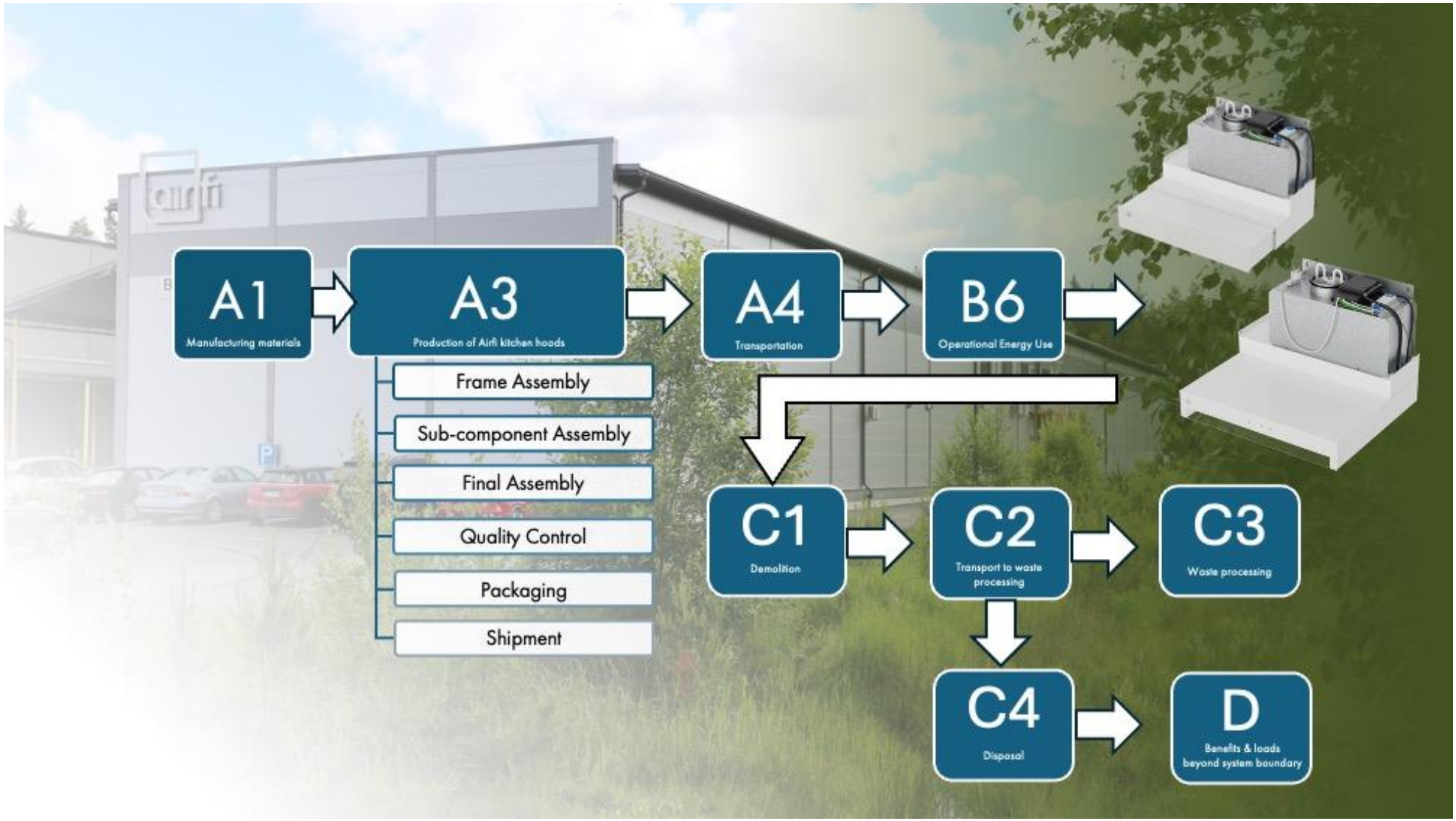
C3-C4

Waste processing and disposal were modelled according to waste processing statistics published by Statistics Finland (Tilastokeskus). Almost all of the materials used in the product are recyclable. For metals, we have assumed that 100% will be recycled. Plastics are either assumed to be entirely incinerated with energy recovery or split between incineration with energy recovery and recycling at 40% and 60% respectively, depending on the material. These categories cover the majority of the materials used in the products. Small amounts of other materials are considered individually and assumed to be disposed of according to the statistics from Statistics Finland.

Resource Recovery Stage (D)

The potential environmental benefits of various recycled metals and small amounts of other materials from module C3 were considered as substituted materials.

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	No allocation
Ancillary materials	No allocation
Manufacturing energy and waste	Allocated by mass or volume

AVERAGES AND VARIABILITY

Type of average	Multiple products
Averaging method	Representative product
Variation in GWP-fossil for A1-A3	-4.51 / 23.58%

The EPD is calculated according to the Lisa-CF65w as a representative product, with the Lisa-CF60w being our worst case product and the Suvi-CF65w as our best-case product.
The EPD covers the Lisa-CF50w, Lisa-CF60w, Lisa-CF65w, Suvi-CF50w, Suvi-CF60w and Suvi-CF65w kitchen hoods. All these kitchen hoods are made from similar materials and only have minor differences in width or technical features.

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, Cut-off, EN 15804+A2‘.

ENVIRONMENTAL IMPACT DATA

CORE ENVIRONMENTAL IMPACT INDICATORS – EN 15804+A2

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_2e	7,68E+00	8,36E-02	2,48E-03	7,77E+00	2,85E-02	3,63E-03	MND	MND	MND	MND	MND	2,96E+00	MND	0,00E+00	5,29E-03	1,63E-01	5,75E-04	-2,04E+00
GWP – fossil	kg CO_2e	7,67E+00	8,35E-02	5,94E-03	7,76E+00	2,85E-02	7,87E-05	MND	MND	MND	MND	MND	2,79E+00	MND	0,00E+00	5,29E-03	1,63E-01	5,75E-04	-2,04E+00
GWP – biogenic	kg CO_2e	1,40E-03	0,00E+00	-3,55E-03	-2,15E-03	5,72E-06	3,55E-03	MND	MND	MND	MND	MND	1,72E-01	MND	0,00E+00	1,20E-06	-4,82E-05	-4,68E-08	0,00E+00
GWP – LULUC	kg CO_2e	1,34E-02	3,94E-05	8,88E-05	1,35E-02	1,02E-05	5,26E-08	MND	MND	MND	MND	MND	1,65E-03	MND	0,00E+00	2,37E-06	3,10E-05	5,92E-09	-1,05E-03
Ozone depletion pot.	kg $CFC\text{-}_{11}$e	5,67E-07	1,35E-09	9,76E-11	5,68E-07	5,67E-10	7,46E-13	MND	MND	MND	MND	MND	2,14E-07	MND	0,00E+00	7,81E-11	3,15E-10	2,68E-13	-1,67E-08
Acidification potential	mol H^+e	8,83E-02	3,12E-04	3,07E-05	8,86E-02	5,92E-05	3,19E-07	MND	MND	MND	MND	MND	2,08E-02	MND	0,00E+00	1,80E-05	2,84E-04	1,43E-07	-2,86E-02
EP-freshwater[2)]	kg Pe	5,78E-03	7,68E-06	2,79E-06	5,79E-03	1,92E-06	1,69E-08	MND	MND	MND	MND	MND	0,00E+00	MND	0,00E+00	4,12E-07	1,36E-05	1,98E-09	-1,86E-03
EP-marine	kg Ne	1,05E-02	1,03E-04	1,14E-05	1,06E-02	1,42E-05	1,40E-07	MND	MND	MND	MND	MND	4,10E-03	MND	0,00E+00	5,93E-06	7,57E-05	1,32E-07	-2,60E-03
EP-terrestrial	mol Ne	2,21E-01	1,12E-03	8,50E-05	2,22E-01	1,54E-04	8,87E-07	MND	MND	MND	MND	MND	5,27E-02	MND	0,00E+00	6,45E-05	7,83E-04	6,79E-07	-3,02E-02
POCP ("smog")[3)]	kg NMVOCe	3,37E-02	4,60E-04	2,50E-05	3,42E-02	9,86E-05	3,14E-07	MND	MND	MND	MND	MND	1,18E-02	MND	0,00E+00	2,66E-05	2,25E-04	1,84E-07	-1,01E-02
ADP-minerals & metals[4)]	kg Sbe	6,23E-03	3,62E-07	7,80E-08	6,24E-03	9,48E-08	6,13E-10	MND	MND	MND	MND	MND	1,60E-05	MND	0,00E+00	1,48E-08	1,37E-06	4,51E-11	-3,62E-04
ADP-fossil resources	MJ	1,04E+02	1,20E+00	7,83E-02	1,05E+02	4,01E-01	7,49E-04	MND	MND	MND	MND	MND	2,40E+02	MND	0,00E+00	7,68E-02	3,18E-01	1,64E-04	-2,43E+01
Water use[5)]	m^3e depr.	1,74E+01	6,55E-03	2,63E-03	1,74E+01	1,99E-03	1,82E-05	MND	MND	MND	MND	MND	2,76E+01	MND	0,00E+00	3,79E-04	1,38E-02	3,63E-05	-5,33E-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.

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

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Particulate matter	Incidence	6,56E-07	8,38E-09	4,31E-10	6,65E-07	2,10E-09	1,52E-11	MND	MND	MND	MND	MND	1,11E-07	MND	0,00E+00	5,30E-10	3,75E-09	1,06E-12	-1,44E-07
Ionizing radiation[6)]	kBq U235e	5,78E-01	1,67E-03	9,36E-04	5,80E-01	5,17E-04	3,08E-06	MND	MND	MND	MND	MND	1,07E+01	MND	0,00E+00	6,69E-05	1,28E-03	2,49E-07	-4,30E-02
Ecotoxicity (freshwater)	CTUe	4,01E+02	1,70E-01	4,89E-02	4,01E+02	5,33E-02	7,01E-04	MND	MND	MND	MND	MND	1,03E+02	MND	0,00E+00	1,09E-02	4,39E-01	1,16E-03	-3,78E+01
Human toxicity, cancer	CTUh	1,84E-08	3,83E-11	3,79E-12	1,84E-08	4,78E-12	1,03E-13	MND	MND	MND	MND	MND	1,50E-09	MND	0,00E+00	8,73E-13	3,16E-11	4,80E-14	-3,25E-09
Human tox. non-cancer	CTUh	4,93E-07	7,71E-10	1,12E-10	4,94E-07	2,53E-10	4,10E-12	MND	MND	MND	MND	MND	3,93E-08	MND	0,00E+00	4,97E-11	1,60E-09	1,90E-12	-2,85E-07
SQP[7)]	-	2,78E+01	1,01E+00	2,98E-01	2,91E+01	2,42E-01	4,95E-04	MND	MND	MND	MND	MND	3,89E+00	MND	0,00E+00	7,73E-02	5,51E-01	1,63E-04	-1,24E+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	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Renew. PER as energy[8)]	MJ	1,28E+01	2,28E-02	3,69E-03	1,28E+01	7,01E-03	-3,77E-02	MND	MND	MND	MND	MND	5,46E+01	MND	0,00E+00	1,05E-03	4,60E-02	5,28E-06	-1,93E+00
Renew. PER as material	MJ	0,00E+00	0,00E+00	3,14E-02	3,14E-02	0,00E+00	-3,14E-02	MND	MND	MND	MND	MND	0,00E+00	MND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Total use of renew. PER	MJ	1,28E+01	2,28E-02	3,51E-02	1,28E+01	7,01E-03	-6,91E-02	MND	MND	MND	MND	MND	5,46E+01	MND	0,00E+00	1,05E-03	4,60E-02	5,28E-06	-1,93E+00
Non-re. PER as energy	MJ	1,05E+02	1,20E+00	7,87E-02	1,06E+02	4,01E-01	7,50E-04	MND	MND	MND	MND	MND	2,40E+02	MND	0,00E+00	7,68E-02	-2,22E+00	-1,72E-02	-2,50E+01
Non-re. PER as material	MJ	1,87E+00	0,00E+00	1,43E-04	1,87E+00	0,00E+00	-1,43E-04	MND	MND	MND	MND	MND	0,00E+00	MND	0,00E+00	0,00E+00	7,83E-01	1,74E-02	0,00E+00
Total use of non-re. PER	MJ	1,07E+02	1,20E+00	7,89E-02	1,08E+02	4,01E-01	6,06E-04	MND	MND	MND	MND	MND	2,40E+02	MND	0,00E+00	7,68E-02	-1,44E+00	1,64E-04	-2,50E+01
Secondary materials	kg	1,11E-01	5,59E-04	2,02E-03	1,13E-01	1,86E-04	1,41E-06	MND	MND	MND	MND	MND	0,00E+00	MND	0,00E+00	3,27E-05	3,80E-04	1,18E-07	7,12E-01
Renew. secondary fuels	MJ	8,32E-03	6,29E-06	1,89E-04	8,52E-03	2,35E-06	7,43E-09	MND	MND	MND	MND	MND	0,00E+00	MND	0,00E+00	4,15E-07	1,61E-05	3,57E-09	-1,48E-04
Non-ren. secondary fuels	MJ	5,99E-03	0,00E+00	0,00E+00	5,99E-03	0,00E+00	0,00E+00	MND	MND	MND	MND	MND	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	8,94E-02	1,88E-04	6,40E-05	8,97E-02	5,46E-05	3,78E-07	MND	MND	MND	MND	MND	2,60E-01	MND	0,00E+00	1,14E-05	2,62E-04	-2,33E-07	-1,45E-02

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	6,35E-01	2,17E-03	4,55E-04	6,37E-01	5,82E-04	8,72E-06	MND	MND	MND	MND	MND	1,01E-01	MND	0,00E+00	1,30E-04	4,80E-03	9,52E-06	-5,23E-01
Non-hazardous waste	kg	1,66E+01	4,42E-02	1,91E-02	1,66E+01	1,23E-02	2,60E-04	MND	MND	MND	MND	MND	3,16E+00	MND	0,00E+00	2,41E-03	1,57E-01	1,40E-03	-1,25E+01
Radioactive waste	kg	5,14E-04	4,18E-07	2,37E-07	5,15E-04	1,28E-07	7,64E-10	MND	MND	MND	MND	MND	4,09E-03	MND	0,00E+00	1,64E-08	3,17E-07	6,28E-11	-1,06E-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	0,00E+00	MND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Materials for recycling	kg	9,82E-05	0,00E+00	1,68E-01	1,68E-01	0,00E+00	2,31E-03	MND	MND	MND	MND	MND	0,00E+00	MND	0,00E+00	0,00E+00	9,48E-01	0,00E+00	0,00E+00
Materials for energy rec	kg	5,83E-06	0,00E+00	0,00E+00	5,83E-06	0,00E+00	1,00E-04	MND	MND	MND	MND	MND	0,00E+00	MND	0,00E+00	0,00E+00	5,45E-02	0,00E+00	0,00E+00
Exported energy	MJ	3,69E-02	0,00E+00	0,00E+00	3,69E-02	0,00E+00	4,76E-01	MND	MND	MND	MND	MND	0,00E+00	MND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Exported energy – Electricity	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	7,10E-02	MND	MND	MND	MND	MND	0,00E+00	MND	0,00E+00	0,00E+00	7,52E-02	0,00E+00	0,00E+00
Exported energy – Heat	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	4,05E-01	MND	MND	MND	MND	MND	0,00E+00	MND	0,00E+00	0,00E+00	1,93E-01	0,00E+00	0,00E+00

ENVIRONMENTAL IMPACTS – EN 15804+A1, CML

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_2e	7,25E+00	8,31E-02	7,16E-03	7,34E+00	2,83E-02	1,33E-04	MND	MND	MND	MND	MND	2,75E+00	MND	0,00E+00	5,26E-03	1,64E-01	5,73E-04	-2,03E+00
Ozone depletion Pot.	kg CFC_{-11}e	5,55E-07	1,07E-09	7,99E-11	5,56E-07	4,51E-10	6,15E-13	MND	MND	MND	MND	MND	1,74E-07	MND	0,00E+00	6,23E-11	2,64E-10	2,33E-13	-1,48E-08
Acidification	kg SO_2e	6,60E-02	2,38E-04	2,37E-05	6,63E-02	4,76E-05	2,50E-07	MND	MND	MND	MND	MND	1,63E-02	MND	0,00E+00	1,38E-05	2,25E-04	1,02E-07	-2,47E-02
Eutrophication	kg PO_4^3e	1,62E-02	5,89E-05	8,97E-06	1,63E-02	1,20E-05	9,11E-08	MND	MND	MND	MND	MND	4,09E-03	MND	0,00E+00	3,36E-06	3,75E-05	4,05E-08	-1,82E-03
POCP (“smog”)	kg C_2H_4e	3,56E-03	2,51E-05	2,11E-06	3,58E-03	5,03E-06	4,77E-08	MND	MND	MND	MND	MND	6,14E-04	MND	0,00E+00	1,23E-06	1,38E-05	1,09E-08	-1,53E-03
ADP-elements	kg Sbe	6,24E-03	3,57E-07	7,76E-08	6,24E-03	9,26E-08	6,04E-10	MND	MND	MND	MND	MND	1,60E-05	MND	0,00E+00	1,44E-08	1,36E-06	3,29E-11	-3,62E-04
ADP-fossil	MJ	9,68E+01	1,17E+00	6,20E-02	9,80E+01	3,92E-01	6,99E-04	MND	MND	MND	MND	MND	2,40E+02	MND	0,00E+00	7,57E-02	2,98E-01	1,60E-04	-2,37E+01

ENVIRONMENTAL IMPACTS – GWP-GHG

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
GWP-GHG[9)]	kg CO_2e	7,68E+00	8,36E-02	6,03E-03	7,77E+00	2,85E-02	7,88E-05	MND	MND	MND	MND	MND	2,79E+00	MND	0,00E+00	5,29E-03	1,63E-01	5,75E-04	-2,04E+00

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.

Abderazak Guiz, as an authorized verifier acting for EPD Hub Limited.

10.06.2025

ANNEX

Below is a list of products covered in this EPD together with weight and calculated GWP Total (A1-A3) (kg CO2e).

Product Name	Weight (kg)	GWP Total (A1-A3) (kg CO2e)
Lisa-CF50w	8.09396	7.75E+01
Lisa-CF60w	8.92296	8.57E+01
Lisa-CF65w	11.97796	9.31E+01
Suvi-CF50w	8.13896	7.62E+01
Suvi-CF60w	8.95796	6.85E+01
Suvi-CF65w	11.86296	8.80E+01