



ENVIRONMENTAL PRODUCT DECLARATION

IN ACCORDANCE WITH EN 15804+A2 & ISO 14025

INLOOK GLAZY 40 - sound-insulating glass wall with aluminium frames
Inlook Oy



EPD HUB, HUB-6478

Published on 27.05.2026, last updated on 27.05.2026, valid until 27.05.2031

Life Cycle Assessment study has been performed in accordance with the requirements of EN 15804, EPD Hub PCR version 1.2 (24 Mar 2025) and JRC characterization factors EF 3.1.



Created with One Click LCA



GENERAL INFORMATION

MANUFACTURER

Manufacturer	Inlook Oy
Address	Sahaajankatu 1, 00880 Helsinki
Contact details	info@inlook.fi
Website	https://www.inlook.fi

EPD STANDARDS, SCOPE AND VERIFICATION

Program operator	EPD Hub, hub@epdhub.com
Reference standard	EN 15804:2012+A2:2019/AC:2021 and ISO 14025
PCR	EPD Hub Core PCR Version 1.2, 24 Mar 2025
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	Tuukka Nissilä & Laura Sariola, AFRY Finland Oy
EPD verification	Independent verification of this EPD and data, according to ISO 14025: ☐ Internal verification ☒ External verification
EPD verifier	Haiha Nguyen as an authorized verifier for EPD Hub

This EPD is intended for business-to-business and/or business-to-consumer communication. 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.

The environmental impact results are reported per square meter. The values are derived from a life cycle assessment conducted for a reference wall configuration with a total area of 7.2 m², which was selected as a commonly used wall size for modelling purposes. The results have been normalized to a unit area to enable consistent reporting.

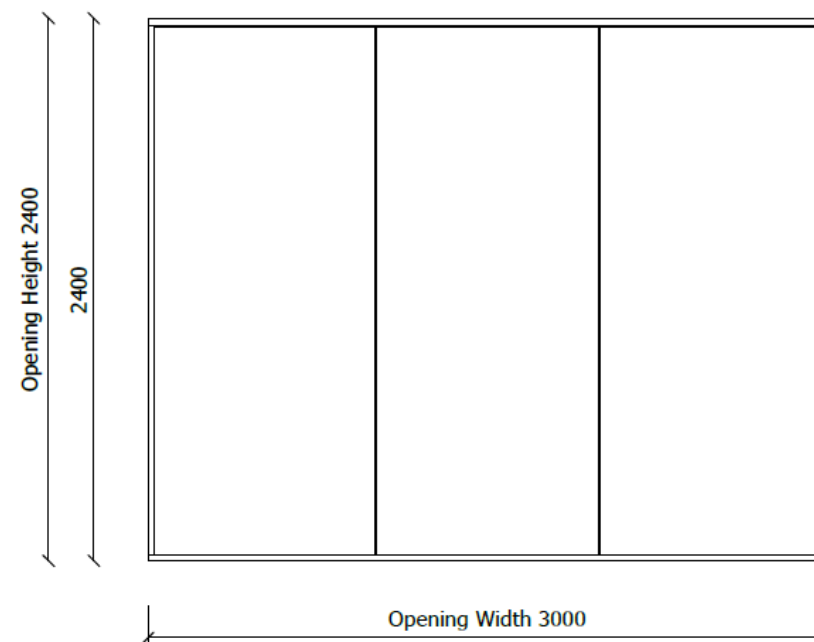
PRODUCT

Product name	INLOOK GLAZY 40 - sound-insulating glass wall with aluminium frames
Place(s) of raw material origin	EU
Place of production	Helsinki, Finland & Tallinn, Estonia
Place(s) of installation and use	Finland
Period for data	1.10.2024 - 30.9.2025
Averaging in EPD	No grouping
A1-A3 Specific data (%)	96,4

ENVIRONMENTAL DATA SUMMARY

Declared unit	One square meter of wall system (m ²)
Declared unit mass	30,64 kg
Mass of packaging	0,038 kg
GWP-fossil, A1-A3 (kgCO ₂ e)	35,2
GWP-total, A1-A3 (kgCO ₂ e)	35,4
Secondary material, inputs (%)	8,57
Total energy use, A1-A3 (kWh)	191
Net freshwater use, A1-A3 (m ³)	0,19

TECHNICAL DRAWING (TYPICAL 7,2 M² WALL SYSTEM)



PRODUCT AND MANUFACTURER

ABOUT THE MANUFACTURER

Inlook is a Finnish company specialized in interior construction. Its range of services includes solutions for new construction, renovation, demanding special projects, main contracting and material selling as well as industrial powder coating.

INLOOK glass wall systems provide a practical working environment with a highly customizable look. The glass walls create the sense of open space but offer the possibility for privacy when needed. Fine-tuned details ensure a stylish and functional result. A wide range of products and a versatile choice of colours / surfaces allow for a variety of styles available for each solution. INLOOK glass wall systems are typically used in offices and commercial premises.

PRODUCT DESCRIPTION

INLOOK GLAZY 40 is an aluminium-framed glass wall system. The wall system forms a continuous glass surface and brings transparency to the space. The reference product consists of three separate solid glasses with surrounding glazing profiles made of aluminium. The glazing profiles are powder coated.

Technical specifications are as follows:

- dimensions: depth 26 mm (with varying width and height)
- glass thickness: 6+6 mm acoustic laminated glass
- PVB (PolyVinyl Butyral) interlayer for sound control (0,76 mm)

Further information can be found at:
<https://www.inlook.fi>

PRODUCT RAW MATERIAL MAIN COMPOSITION

Raw material category	Amount, mass %	Material origin
Metals	6,6	EU
Minerals	92,7	EU
Fossil materials	0,7	EU
Bio-based materials	0,0	EU

BIOGENIC CARBON CONTENT

Product's biogenic carbon content at the factory gate

Biogenic carbon content in product, kg C	0,00
Biogenic carbon content in packaging, kg C	0,01

FUNCTIONAL UNIT AND SERVICE LIFE

Declared unit	One square meter of wall system (m ²)
Mass per declared unit	30,64 kg

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	ND	ND	ND	ND	ND	ND	ND	x	x	x	x	x		
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

Not declared = ND.

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.

A market-based approach is used in modelling the electricity mix utilized in the factory.

The product consists of a solid glass wall with aluminium frames (A1). The glass used in the product is pre-laminated glass with a polyvinyl butyral (PVB) interlayer and is manufactured in Europe. The aluminium profiles have a 25% post-consumer scrap content and are purchased from a Finnish supplier. Sealants and some small parts are added during the assembly phase.

For raw material transport (A2), an average occupancy rate is assumed for both road haulage and sea transport. Actual transport distances are used, and empty return trips are included for road haulage.

The manufacturing process (A3) includes

- 1) powder coating of the aluminium profiles in Tallinn, Estonia,
- 2) cutting of the profiles in Helsinki, Finland, and
- 3) glass cutting by a Finnish subcontractor.

The powder coating step uses electricity and natural gas, and auxiliary chemicals are used in the pre-treatment of the profiles. The profile cutting step consumes heat and electricity. The electricity and water consumptions related to glass cutting are also included in the assessment. Packaging materials are accounted for except for glass racks which are acquired as a service. The profiles and glasses are combined into finished elements during the installation phase (A5).

Waste generated during production (A3) is sorted and assumed to be treated according to separate scenarios in Tallinn and Helsinki. In Tallinn, all mixed and plastic waste is assumed to be incinerated with energy recovery, and waste powder coating and cardboard are assumed to be landfilled and recycled, respectively. In Helsinki, 100% of wood and 70% of plastic waste is

assumed to be incinerated with energy recovery, and 100% of metal and 30% of plastic waste is assumed to be recycled. The waste treatment scenario for waste generated in Helsinki facility is derived from Finnish national waste statistics ([Statistics Finland 2023](#)). Actual transport distances are used.

The glass cutting subcontractor uses green energy. The use of green energy in manufacturing is demonstrated through contractual instruments (GOs, RECs, etc.), and its use is ensured throughout the validity period of this EPD.

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 average transport distance to the site (A4) is 183 km by lorry, calculated as a weighted average taking into account the sales shares of the regional offices and the distance to the glass cutting subcontractor. Transport volume includes packaging materials and glass racks. An average occupancy rate is assumed for product delivery. Transport losses are assessed as insignificant (<1%).

The energy consumption for the installation phase (A5) has been estimated based on the average energy consumption of the electric tools and the estimated working hours. The estimated installation (A5) time (2-3h) of a typical 7,2 m² wall system is based on site experience. The installation is done with a 5 Ah electric tool and energy consumption is estimated based on the battery charge level before and after installation. For waste generated during installation, the same Finnish waste treatment scenario for wood and plastic waste is assumed as in A3. In addition, waste metal and cardboard are assumed to be 100% recycled. The estimated transport distance to waste treatment is 50 km.

PRODUCT USE AND MAINTENANCE (B1-B7)

This EPD does not cover the use phase.

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

PRODUCT END OF LIFE (C1-C4, D)

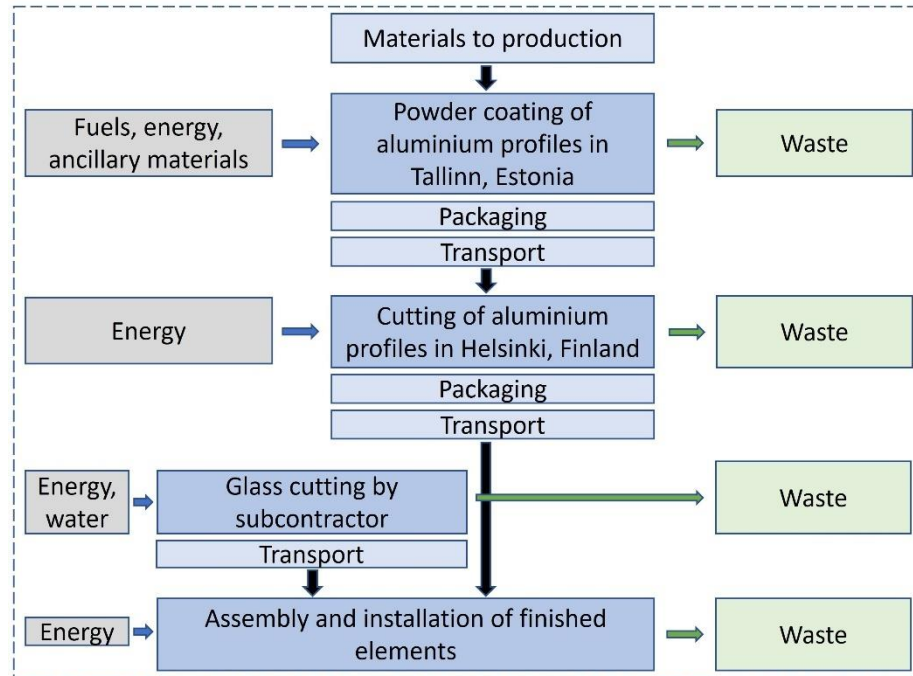
At the end of the life cycle, the product is dismantled. The impacts cover the use of energy to dismantle the product with an electric drill (C1). The dismantled waste material is transported to the closest facility for recycling (C2). The waste transport distance is 127 km for aluminium and 82 km for glass, and the assumed average distance for other waste streams is 50 km. 100% of waste metal, including the aluminium frames, and 75% of waste glass is assumed to be recycled according to Finnish national waste statistics (C3). 80% of mixed waste is assumed to be incinerated with energy recovery. 25% of waste glass and 20% of mixed waste (e.g. sealant scrap) is expected to be landfilled (C4).

The benefits from material recycling and energy recovery are accounted for in module D. The benefit from aluminium recycling is calculated based on the following information/assumptions:

- aluminium frames consist of 75% pre-consumer and 25% post-consumer scrap
- the pre-consumer scrap at Purso includes also scrap from secondary aluminium profile production, hence it includes some secondary material. According to Purso, the ratio between primary and secondary production is approximately 50/50 so the benefit for pre-consumer (primary) scrap is calculated as $\text{mass} \times 1,00 \times 0,75 \times 0,5$.

MANUFACTURING PROCESS

System boundary in A1-A5 modules



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.

The production of capital equipment, construction activities, and infrastructure, maintenance and operation of capital equipment, personnel-related activities, energy and water use related to company management and sales activities are excluded.

For packaging materials, glass racks and packaging tape (PVC) are excluded. Glass racks are acquired as a service from the supplier who supplies the cut-to-size glass. Hence, the supplier takes care of the retrieval of the racks and any necessary maintenance and repair. Glass racks are only accounted for in the transport quantity in A4 as they are part of the transported packaging.

Fraction of the sawnwood used in packaging is reused, but only the virgin material is included in the LCA model. Excluding the transport of reused sawnwood has a less than 0,00% impact on the A1-A3 GWP.

VALIDATION OF DATA

Data collection for production, transport, and packaging was conducted using time and site-specific information, as defined in the general information section on page 1 and 2. Upstream process calculations rely on generic data as defined in the Bibliography section. Manufacturer-provided specific and generic data were used for the product's manufacturing stage.

One Click LCA Created with One Click LCA

The analysis was performed in One Click LCA EPD Generator, with the 'Cut-Off, EN 15804+A2' allocation method, and characterization factors according to EN 15804:2012+A2:2019/AC:2021 and JRC EF 3.1.

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	Partly allocated by mass/volume and partly by revenue
Packaging material	Allocated by revenue
Ancillary materials	Allocated by mass or volume
Manufacturing energy and waste	Allocated by mass or volume

PRODUCT & MANUFACTURING SITES GROUPING

Type of grouping	No grouping
Grouping method	Not applicable

This EPD is product and factory specific.

LCA SOFTWARE AND BIBLIOGRAPHY

This EPD has been created using One Click LCA EPD Generator for EPD Hub V3 and EPD Process Certification v3.2.4. The LCA and EPD have been prepared according to the reference standards and ISO 14040/14044. The EPD Generator uses Ecoinvent v3.10.1/3.11/3.12 and One Click LCA databases as sources of environmental data. Allocation used in Ecoinvent 3.10.1/3.11/3.12 environmental data sources follow the methodology 'allocation, Cut-off, EN 15804+A2'.

ENVIRONMENTAL IMPACT DATA

The estimated impact results are only relative statements which do not indicate the end points of the impact categories, exceeding threshold values, safety margins or risks. All values are per m².

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

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	2,73E+01	6,12E+00	1,92E+00	3,54E+01	1,21E+00	2,99E-01	ND	ND	ND	ND	ND	ND	ND	2,31E-02	4,87E-01	5,63E-01	8,41E-02	-4,20E+00
GWP – fossil	kg CO ₂ e	2,72E+01	6,12E+00	1,90E+00	3,52E+01	1,21E+00	2,40E-01	ND	ND	ND	ND	ND	ND	ND	2,31E-02	4,87E-01	5,60E-01	8,37E-02	-4,12E+00
GWP – biogenic	kg CO ₂ e	1,10E-01	-2,53E-04	-2,52E-02	8,46E-02	2,43E-04	5,84E-02	ND	ND	ND	ND	ND	ND	ND	1,63E-05	9,76E-05	2,36E-03	3,23E-04	0,00E+00
GWP – LULUC	kg CO ₂ e	3,96E-02	2,79E-03	4,50E-02	8,74E-02	4,35E-04	6,88E-05	ND	ND	ND	ND	ND	ND	ND	2,81E-06	1,75E-04	2,78E-04	4,79E-05	-8,40E-02
Ozone depletion pot.	kg CFC ₋₁₁ e	1,36E-06	9,91E-08	2,54E-08	1,48E-06	2,41E-08	4,38E-09	ND	ND	ND	ND	ND	ND	ND	3,09E-10	9,70E-09	8,44E-09	2,01E-09	-6,08E-08
Acidification potential	mol H ⁺ e	1,37E-01	1,31E-01	5,38E-03	2,73E-01	2,52E-03	5,11E-04	ND	ND	ND	ND	ND	ND	ND	6,88E-05	1,01E-03	2,66E-03	5,55E-04	-2,48E-02
EP-freshwater ²⁾	kg Pe	5,19E-04	2,68E-04	6,10E-04	1,40E-03	8,15E-05	3,47E-05	ND	ND	ND	ND	ND	ND	ND	1,11E-05	3,28E-05	2,63E-04	1,05E-05	-1,87E-03
EP-marine	kg Ne	3,07E-02	3,30E-02	2,14E-03	6,59E-02	6,05E-04	1,22E-04	ND	ND	ND	ND	ND	ND	ND	1,64E-05	2,43E-04	7,05E-04	3,08E-04	-4,10E-03
EP-terrestrial	mol Ne	3,39E-01	3,66E-01	1,22E-02	7,18E-01	6,53E-03	1,29E-03	ND	ND	ND	ND	ND	ND	ND	1,65E-04	2,63E-03	6,67E-03	2,33E-03	-3,86E-02
POCP (“smog”) ³⁾	kg NMVOCe	9,32E-02	1,03E-01	4,29E-03	2,01E-01	4,19E-03	7,21E-04	ND	ND	ND	ND	ND	ND	ND	4,64E-05	1,69E-03	2,30E-03	8,14E-04	-1,54E-02
ADP-minerals & metals ⁴⁾	kg Sbe	2,17E-05	9,29E-06	6,31E-06	3,73E-05	4,03E-06	6,62E-07	ND	ND	ND	ND	ND	ND	ND	2,22E-08	1,62E-06	7,98E-06	1,52E-07	4,09E-05
ADP-fossil resources	MJ	4,39E+02	8,01E+01	7,26E+01	5,92E+02	1,70E+01	3,26E+00	ND	ND	ND	ND	ND	ND	ND	3,19E-01	6,85E+00	5,98E+00	1,77E+00	-6,04E+01
Water use ⁵⁾	m ³ e depr.	1,87E+00	2,83E-01	2,07E+00	4,23E+00	8,46E-02	1,89E-02	ND	ND	ND	ND	ND	ND	ND	2,51E-03	3,41E-02	1,72E-01	7,81E-02	-7,89E+00

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

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

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Particulate matter	Incidence	3,49E-07	3,05E-07	6,34E-08	7,18E-07	8,92E-08	1,22E-08	ND	ND	ND	ND	ND	ND	ND	2,65E-10	3,59E-08	4,38E-08	1,29E-08	-3,69E-07
Ionizing radiation ⁶⁾	kBq 11235e	5,91E-01	5,41E-02	3,39E+00	4,03E+00	2,20E-02	1,24E-02	ND	ND	ND	ND	ND	ND	ND	4,19E-03	8,84E-03	3,92E-02	1,52E-03	-9,51E-01
Ecotoxicity (freshwater)	CTUe	8,79E+01	3,52E+01	5,05E+01	1,74E+02	2,27E+00	1,67E+00	ND	ND	ND	ND	ND	ND	ND	6,37E-01	9,13E-01	1,18E+02	6,15E+00	-8,50E+01
Human toxicity, cancer	CTUh	7,53E-09	1,19E-09	7,31E-10	9,45E-09	2,03E-10	3,44E-11	ND	ND	ND	ND	ND	ND	ND	2,03E-12	8,17E-11	1,78E-10	1,87E-11	-7,05E-09
Human tox. non-cancer	CTUh	6,80E-08	3,04E-08	1,41E-08	1,12E-07	1,08E-08	1,80E-09	ND	ND	ND	ND	ND	ND	ND	1,03E-10	4,34E-09	1,05E-08	5,34E-10	-8,20E-09
SQP ⁷⁾	-	1,59E+01	3,19E+01	9,51E+00	5,73E+01	1,03E+01	1,48E+00	ND	ND	ND	ND	ND	ND	ND	6,51E-02	4,14E+00	8,20E+00	4,21E+00	-2,34E+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	9,14E+01	8,16E-01	7,33E+00	9,95E+01	2,98E-01	-2,88E-01	ND	ND	ND	ND	ND	ND	ND	1,41E-02	1,20E-01	-1,80E+00	-5,54E-01	-2,24E+01
Renew. PER as material	MJ	0,00E+00	0,00E+00	4,63E-01	4,63E-01	0,00E+00	-4,63E-01	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Total use of renew. PER	MJ	9,14E+01	8,16E-01	7,80E+00	1,00E+02	2,98E-01	-7,51E-01	ND	ND	ND	ND	ND	ND	ND	1,41E-02	1,20E-01	-1,80E+00	-5,54E-01	-2,24E+01
Non-re. PER as energy	MJ	4,36E+02	8,01E+01	7,10E+01	5,87E+02	1,70E+01	3,14E+00	ND	ND	ND	ND	ND	ND	ND	3,19E-01	6,85E+00	4,08E+00	9,56E-01	-6,04E+01
Non-re. PER as material	MJ	5,27E+00	0,00E+00	3,97E-01	5,67E+00	0,00E+00	-3,97E-01	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	-4,22E+00	-1,05E+00	0,00E+00
Total use of non-re. PER	MJ	4,41E+02	8,01E+01	7,14E+01	5,93E+02	1,70E+01	2,74E+00	ND	ND	ND	ND	ND	ND	ND	3,19E-01	6,85E+00	-1,32E-01	-9,78E-02	-6,04E+01
Secondary materials	kg	2,63E+00	3,48E-02	1,11E-02	2,67E+00	7,91E-03	1,22E-03	ND	ND	ND	ND	ND	ND	ND	3,18E-05	3,18E-03	2,83E-03	6,12E-04	2,23E+01
Renew. secondary fuels	MJ	2,66E-03	2,04E-04	3,41E-04	3,20E-03	1,00E-04	1,21E-05	ND	ND	ND	ND	ND	ND	ND	1,57E-07	4,02E-05	6,48E-05	1,23E-05	-4,72E-04
Non-ren. secondary fuels	MJ	0,00E+00	0,00E+00	0,00E+00	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	m ³	1,30E-01	7,35E-03	4,89E-02	1,86E-01	2,32E-03	4,93E-04	ND	ND	ND	ND	ND	ND	ND	6,13E-05	9,34E-04	-2,23E-02	-2,70E-02	-1,68E-01

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	7,94E-02	1,04E-01	1,36E-01	3,19E-01	2,48E-02	7,90E-03	ND	ND	ND	ND	ND	ND	ND	2,13E-03	9,96E-03	4,24E-02	2,95E-03	-9,54E-01
Non-hazardous waste	kg	5,22E+00	1,73E+00	4,75E+01	5,44E+01	5,22E-01	2,17E-01	ND	ND	ND	ND	ND	ND	ND	5,57E-02	2,10E-01	2,95E+01	1,93E+01	-9,03E+00
Radioactive waste	kg	3,04E-03	1,33E-05	7,54E-04	3,81E-03	5,46E-06	2,97E-06	ND	ND	ND	ND	ND	ND	ND	9,84E-07	2,20E-06	9,99E-06	3,67E-07	-2,51E-04

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	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	2,41E+00	0,00E+00	7,36E-01	3,14E+00	0,00E+00	1,10E-03	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	2,32E+01	0,00E+00	0,00E+00
Materials for energy rec	kg	7,60E-02	0,00E+00	4,46E-02	1,21E-01	0,00E+00	2,42E-02	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	1,39E-01	0,00E+00	0,00E+00
Exported energy	MJ	4,59E-01	0,00E+00	0,00E+00	4,59E-01	0,00E+00	1,43E-01	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	1,12E+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	4,76E-02	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	2,92E-01	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	9,52E-02	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	8,31E-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 ₂ e	2,67E+01	6,09E+00	1,95E+00	3,48E+01	1,20E+00	2,39E-01	ND	ND	ND	ND	ND	ND	ND	2,30E-02	4,84E-01	5,59E-01	9,63E-02	-4,20E+00
Ozone depletion Pot.	kg CFC ₁₁ e	2,42E-06	7,89E-08	2,11E-08	2,52E-06	1,92E-08	3,50E-09	ND	ND	ND	ND	ND	ND	ND	2,52E-10	7,72E-09	6,85E-09	1,62E-09	-5,02E-08
Acidification	kg SO ₂ e	1,75E-01	1,04E-01	4,38E-03	2,83E-01	2,02E-03	4,11E-04	ND	ND	ND	ND	ND	ND	ND	5,54E-05	8,14E-04	2,15E-03	4,09E-04	-2,11E-02
Eutrophication	kg PO ₄ ³ e	3,23E-02	1,21E-02	1,87E-03	4,62E-02	5,11E-04	9,28E-05	ND	ND	ND	ND	ND	ND	ND	1,03E-05	2,06E-04	4,39E-04	2,16E-04	-2,32E-03
POCP (“smog”)	kg C ₂ H ₄ e	1,03E-02	5,34E-03	3,11E-04	1,60E-02	2,14E-04	3,84E-05	ND	ND	ND	ND	ND	ND	ND	3,38E-06	8,61E-05	1,39E-04	3,79E-05	-2,42E-03
ADP-elements	kg Sbe	2,05E-04	9,12E-06	6,30E-06	2,20E-04	3,94E-06	6,42E-07	ND	ND	ND	ND	ND	ND	ND	2,15E-08	1,59E-06	7,94E-06	1,47E-07	4,20E-05

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
ADP-fossil	MJ	3,11E+02	7,93E+01	2,18E+01	4,12E+02	1,67E+01	3,07E+00	ND	ND	ND	ND	ND	ND	ND	2,54E-01	6,71E+00	5,30E+00	1,75E+00	-4,40E+01

ADDITIONAL INDICATOR – 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 ₂ e	2,72E+01	6,13E+00	1,95E+00	3,53E+01	1,21E+00	2,40E-01	ND	ND	ND	ND	ND	ND	ND	2,31E-02	4,87E-01	5,60E-01	8,38E-02	-4,20E+00

9) This indicator includes all greenhouse gases excluding biogenic carbon dioxide uptake and emissions and biogenic carbon stored in the product. In addition, the characterisation factors for the flows – CH₄ fossil, CH₄ biogenic and Dinitrogen monoxide – were updated. This indicator is identical to the GWP-total of EN 15804:2012+A2:2019 except that the characterisation factor for biogenic CO₂ is set to zero

SCENARIO DOCUMENTATION

DATA SOURCES

Manufacturing energy scenario documentation

1. Electricity, medium voltage, residual mix, Estonia, Ecoinvent 3.11
2. Electricity, medium voltage, residual mix, Finland, Ecoinvent 3.11
3. Heat production, natural gas, at industrial furnace >100kW, World, Ecoinvent 3.11
4. Electricity production, hydro, run-of-river, Finland, Ecoinvent 3.11
5. Electricity production, hydro, reservoir, non-alpine region, Finland, Ecoinvent 3.11
6. Electricity production, nuclear, boiling water reactor, Finland, Ecoinvent 3.11
7. Electricity production, nuclear, pressure water reactor, Finland, Ecoinvent 3.11
8. Market for heat, district or industrial, natural gas, Europe without Switzerland, Ecoinvent 3.11
9. Market for heat, district or industrial, other than natural gas, Europe without Switzerland, Ecoinvent 3.11

Transport scenario documentation - A4 (Transport resources)

1. Market for transport, freight, lorry 16-32 metric ton, EURO6, 183 km

Transport to the building site (A4) - Scenario documentation

Scenario parameter	Value
Capacity utilization (including empty return) %	50
Bulk density of transported products	6,14E+01
Volume capacity utilization factor	1

Installation at the building site (A5) - Scenario documentation

Scenario parameter	Value
Energy: type and consumption (MJ or kWh)	Electricity, low voltage, 0,0653 kWh, handheld screwdriver
Water use (m ³)	-
Ancillary materials: type and mass (kg)	-
Waste materials: type and mass (kg)	Plastic wrapping: 0.0033 Plastic tape: 0.0003 Wood: 0.217
Waste materials: output routes (kg)	Plastics incineration with energy recovery: 0.0025 Plastics recycling: 0.0011 Wood incineration with energy recovery: 0.0217
Direct emissions (kg)	-

End of life (C1-C4) - Scenario documentation

Scenario information	Value
Collection process: collected separately (kg)	30,47
Collection process: Mixed waste (kg)	0,17
Recovery: re-use (kg)	0
Recovery: recycling (kg)	23,19
Recovery: energy recovery (kg)	0,14
Disposal (kg)	7,31
Scenario assumptions e.g. transportation (mode, km) & other	Aluminium, 127 km, lorry. Glass, 82 km, lorry. Other waste streams, 50 km, lorry.

THIRD-PARTY VERIFICATION STATEMENT

EPD Hub declares that this EPD is verified in accordance with ISO 14025 by an independent, third-party verifier. The project report on the Life Cycle Assessment and the report(s) on features of environmental relevance are filed at EPD Hub. EPD Hub PCR and ECO Platform verification checklist are used.

EPD Hub is not able to identify any unjustified deviations from the PCR and EN 15804+A2 in the Environmental Product Declaration and its project report.

EPD Hub maintains its independence as a third-party body; it was not involved in the execution of the LCA or in the development of the declaration and has no conflicts of interest regarding this verification.

The company-specific data and upstream and downstream data have been examined as regards plausibility and consistency. The publisher is responsible for ensuring the factual integrity and legal compliance of this declaration.

The software used in creation of this LCA and EPD is verified by EPD Hub to conform to the procedural and methodological requirements outlined in ISO 14025:2010, ISO 14040/14044, EN 15804+A2, and EPD Hub Core Product Category Rules and General Program Instructions.

Verified tools

Tool verifier: Magaly Gonzalez Vazquez

Tool verification validity: 27 March 2025 - 26 March 2028

Haiha Nguyen as an authorized verifier for EPD Hub Limited 27.05.2026



ANNEX 1: CARBON FOOTPRINT DATA FOR PRODUCT VARIANTS

The product is available in different glass thicknesses and configurations. Corresponding GWP values are presented in the table below.

Product	GWP (kg CO ₂ e/m ²)	A1	A2	A3	A1-A3	A4	A5	C1	C2	C3	C4	D	A1-A3 GWP (kg CO ₂ e/kg)
Reference													
INLOOK GLAZY 40 (glass 6+6 mm)	total	2,73E+01	6,12E+00	1,92E+00	3,54E+01	1,21E+00	2,99E-01	2,31E-02	4,87E-01	5,63E-01	8,41E-02	-4,20E+00	1,13E+00
	fossil	2,72E+01	6,12E+00	1,90E+00	3,52E+01	1,21E+00	2,40E-01	2,31E-02	4,87E-01	5,60E-01	8,37E-02	-4,12E+00	1,12E+00
Variant													
INLOOK GLAZY 37 (glass 5+5 mm)	total	2,35E+01	5,12E+00	1,88E+00	3,05E+01	1,04E+00	2,99E-01	2,36E-02	4,11E-01	5,21E-01	7,08E-02	-4,08E+00	1,15E+00
	fossil	2,34E+01	5,12E+00	1,87E+00	3,04E+01	1,04E+00	2,40E-01	2,36E-02	4,11E-01	5,18E-01	7,08E-02	-3,99E+00	1,14E+00
INLOOK GLAZY 41 (glass 8+8 mm)	total	3,38E+01	8,14E+00	1,78E+00	4,38E+01	1,55E+00	2,99E-01	2,36E-02	6,40E-01	6,47E-01	1,13E-01	-4,34E+00	1,08E+00
	fossil	3,37E+01	8,13E+00	1,74E+00	4,35E+01	1,55E+00	2,40E-01	2,36E-02	6,40E-01	6,43E-01	1,13E-01	-4,26E+00	1,07E+00
INLOOK GLAZY 42 (glass 10+10 mm)	total	4,10E+01	1,02E+01	1,82E+00	5,29E+01	1,89E+00	2,99E-01	2,36E-02	7,92E-01	6,74E-01	1,35E-01	-4,51E+00	1,05E+00
	fossil	4,07E+01	1,01E+01	1,76E+00	5,27E+01	1,89E+00	2,40E-01	2,36E-02	7,90E-01	6,71E-01	1,35E-01	-4,43E+00	1,05E+00
INLOOK GLAZY 2K 45	total	3,57E+01	8,55E+00	1,79E+00	4,61E+01	1,63E+00	2,99E-01	2,36E-02	6,72E-01	6,96E-01	1,21E-01	-4,44E+00	1,08E+00
	fossil	3,56E+01	8,55E+00	1,74E+00	4,58E+01	1,63E+00	2,40E-01	2,36E-02	6,72E-01	6,93E-01	1,19E-01	-4,36E+00	1,08E+00
INLOOK GLAZY 2K 48	total	4,35E+01	1,06E+01	1,83E+00	5,59E+01	1,98E+00	2,99E-01	2,36E-02	8,28E-01	7,72E-01	1,47E-01	-4,68E+00	1,06E+00
	fossil	4,33E+01	1,06E+01	1,76E+00	5,57E+01	1,97E+00	2,40E-01	2,36E-02	8,28E-01	7,68E-01	1,47E-01	-4,60E+00	1,06E+00

ANNEX 1: CARBON FOOTPRINT DATA FOR PRODUCT VARIANTS

The product is available in different glass thicknesses and configurations. Corresponding GWP values are presented in the table below.

Product	GWP (kg CO ₂ e/m ²)	A1	A2	A3	A1-A3	A4	A5	C1	C2	C3	C4	D	A1-A3 GWP (kg CO ₂ e/kg)
Reference													
INLOOK GLAZY 40 (glass 6+6 mm)	total	2,73E+01	6,12E+00	1,92E+00	3,54E+01	1,21E+00	2,99E-01	2,31E-02	4,87E-01	5,63E-01	8,41E-02	-4,20E+00	1,13E+00
	fossil	2,72E+01	6,12E+00	1,90E+00	3,52E+01	1,21E+00	2,40E-01	2,31E-02	4,87E-01	5,60E-01	8,37E-02	-4,12E+00	1,12E+00
Variant													
INLOOK GLAZY 37 (glass 5+5 mm)	total	2,35E+01	5,12E+00	1,88E+00	3,05E+01	1,04E+00	2,99E-01	2,36E-02	4,11E-01	5,21E-01	7,08E-02	-4,08E+00	1,15E+00
	fossil	2,34E+01	5,12E+00	1,87E+00	3,04E+01	1,04E+00	2,40E-01	2,36E-02	4,11E-01	5,18E-01	7,08E-02	-3,99E+00	1,14E+00
INLOOK GLAZY 41 (glass 8+8 mm)	total	3,38E+01	8,14E+00	1,78E+00	4,38E+01	1,55E+00	2,99E-01	2,36E-02	6,40E-01	6,47E-01	1,13E-01	-4,34E+00	1,08E+00
	fossil	3,37E+01	8,13E+00	1,74E+00	4,35E+01	1,55E+00	2,40E-01	2,36E-02	6,40E-01	6,43E-01	1,13E-01	-4,26E+00	1,07E+00
INLOOK GLAZY 42 (glass 10+10 mm)	total	4,10E+01	1,02E+01	1,82E+00	5,29E+01	1,89E+00	2,99E-01	2,36E-02	7,92E-01	6,74E-01	1,35E-01	-4,51E+00	1,05E+00
	fossil	4,07E+01	1,01E+01	1,76E+00	5,27E+01	1,89E+00	2,40E-01	2,36E-02	7,90E-01	6,71E-01	1,35E-01	-4,43E+00	1,05E+00
INLOOK GLAZY 2K 45	total	3,57E+01	8,55E+00	1,79E+00	4,61E+01	1,63E+00	2,99E-01	2,36E-02	6,72E-01	6,96E-01	1,21E-01	-4,44E+00	1,08E+00
	fossil	3,56E+01	8,55E+00	1,74E+00	4,58E+01	1,63E+00	2,40E-01	2,36E-02	6,72E-01	6,93E-01	1,19E-01	-4,36E+00	1,08E+00
INLOOK GLAZY 2K 48	total	4,35E+01	1,06E+01	1,83E+00	5,59E+01	1,98E+00	2,99E-01	2,36E-02	8,28E-01	7,72E-01	1,47E-01	-4,68E+00	1,06E+00
	fossil	4,33E+01	1,06E+01	1,76E+00	5,57E+01	1,97E+00	2,40E-01	2,36E-02	8,28E-01	7,68E-01	1,47E-01	-4,60E+00	1,06E+00