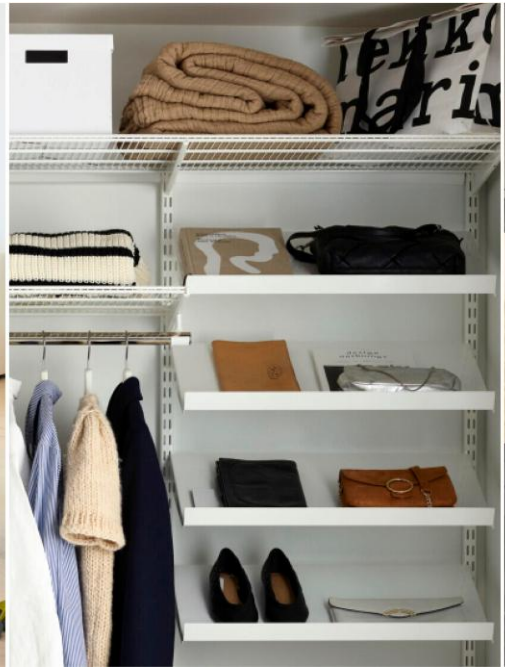
ENVIRONMENTAL PRODUCT DECLARATION

IN ACCORDANCE WITH EN 15804+A2 & ISO 14025

Elfa Storage – Solid Surface Products, Drawer System, Closet Rods & Accessories
Elfa International AB



EPD HUB, HUB-3520
Published on 29.06.2025, last updated on 29.06.2025, valid until 28.06.2030

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.

Created with One Click LCA

GENERAL INFORMATION

MANUFACTURER

Manufacturer	Elfa International AB
Address	Lilla Nygatan 7 5TR, 211 38, MALMO, SE
Contact details	Heba.alwan@elfa.com
Website	www.elfa.com

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 1.1, 5 Dec 2023
Sector	Construction product
Category of EPD	Third-party verified EPD
Scope of the EPD	Cradle to gate with options, A4-A5, and modules C1-C4, D
EPD author	Heba Alwan, Elfa International AB
EPD verification	Independent verification of this EPD and data, according to ISO 14025: ☐ Internal verification ☑ External verification
EPD verifier	Lucas Rodriguez, an authorized verifier acting for EPD Hub Limited.

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.

PRODUCT

Product name	Elfa Storage – Solid Surface Products, Drawer System, Closet Rods & Accessories
Additional labels	Annex 1
Product reference	Multiple products
Place(s) of raw material origin	EU
Place of production	Västervik, Sweden, Multiple manufacturers.
Period for data	1/01/2024-31/12/2024
Averaging in EPD	Multiple products and multiple factories
Variation in GWP-fossil for A1-A3 (%)	-8 / +2 %
GTIN (Global Trade Item Number)	Annex 1

ENVIRONMENTAL DATA SUMMARY

Declared unit	1 kg of Solid Surface Products, frame sides, Closet Rods & Accessories products calculated using the most common representative material composition
Declared unit mass	1 kg
GWP-fossil, A1-A3 ($kgCO_2e$)	3,23E+00
GWP-total, A1-A3 ($kgCO_2e$)	3,15E+00
Secondary material, inputs (%)	34,1
Secondary material, outputs (%)	82,5
Total energy use, A1-A3 (kWh)	13,8
Net freshwater use, A1-A3 (m^3)	0,88

PRODUCT AND MANUFACTURER

ABOUT THE MANUFACTURER

Elfa Manufacturing Sweden AB and Elfa Manufacturing Poland are subsidiaries of the Elfa Group. Established in 1948, Elfa offers a range of durable and customizable home storage solutions, including wall-mounted and freestanding storage systems, top tracks, hang standards, brackets, shelves, drawers, and sliding doors. The Elfa Group operates three production sites located in Västervik and Mullsjö, Sweden, and Koszalin, Poland. Additionally, we have sales companies in Norway, Finland, Denmark, France, and Germany. At Elfa, we are deeply committed to a sustainable future and are proud signatories of the UN Global Compact. Our high rankings on networks like EcoVadis attest to our dedication. We've set ambitious environmental and climate sustainability targets, focusing on reducing our carbon footprint and developing long-lasting, high-quality products with timeless designs to encourage circular flows. Furthermore, all Elfa production sites hold ISO 14001:2015 certification.

PRODUCT DESCRIPTION

To enable an Environmental Product Declaration that reflects our complete offering, we have grouped a selection of Elfa accessories with similar material composition and origin into a shared Life Cycle Assessment. These products are specifically designed to enhance the functionality of our storage systems and support flexible, tailored solutions for various room settings and needs. To improve clarity, the products are categorized into three groups based on their typical use:

- ***Structural products***: These products form the load-bearing foundation of various systems and allow for the flexible installation of shelves, drawers, and other features. Examples include frame sides and freestanding uprights. The grouping of these products is based on their similar functional role within the drawer system and comparable material composition.
- ***Functional storage surfaces***: Surfaces and accessories that create practical storage or workspaces tailored to the user's needs, such as angled shelves, work surfaces, and storing boards.
- ***Organising and complementary accessories***: Smart accessories that help maximise usability, structure, and overview, such as closet rods, brackets with integrated rod holders, and book supports.

See Annex 1 for the complete list of products and variations

Further information can be found at www.elfa.com

PRODUCT RAW MATERIAL MAIN COMPOSITION

Raw material category	Amount, mass %	Material origin
Metals	97	EU
Minerals	3	EU

BIOGENIC CARBON CONTENT

Product's biogenic carbon content at the factory gate

Biogenic carbon content in product, kg C	-
Biogenic carbon content in packaging, kg C	0,022

FUNCTIONAL UNIT AND SERVICE LIFE

Declared unit	1 kg of Solid Surface Products, Frame sides, Closet Rods & Accessories products calculated using the most common representative material composition
Mass per declared unit	1 kg
Functional unit	-
Reference service life	-

SUBSTANCES, REACH - VERY HIGH CONCERN

The product does not contain any REACH SVHC substances in amounts greater than 0,1 % (1000 ppm).

PRODUCT LIFE-CYCLE

SYSTEM BOUNDARY

This EPD covers the life-cycle modules listed in the following table.

Product stage			Assembly stage		Use stage							End of life stage				Beyond the system boundaries		
A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D		
x	x	x	x	x	MND	MND	MND	MND	MND	MND	MND	x	x	x	x	x		
Raw materials	Transport	Manufacturing	Transport	Assembly	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	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 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.

The primary raw materials used in the product consist of 97% steel sheet, supplied in either coil or tube form, and 3% powder coating **(A1)**.

The manufacturing and packaging processes occur at two locations: Elfa Manufacturing Poland in Koszalin, Poland, and Elfa Manufacturing Sweden AB in Västervik, Sweden. The scope of this EPD includes inter-site transportation between these facilities, as well as the transportation of incoming raw materials and packaging materials **(A2)**.

The two production facilities are ISO 14001:2015 certified. At the two facilities, electricity, district heating, light fuel oil, natural gas, and welding electrodes are used in the manufacturing process. Steel in coil or tube form is cut to size and formed using standard steel working techniques of cutting, welding, and conveying. Before applying the powder coating, the steel surface needs to be properly prepared. This typically involves cleaning the surface to remove any dirt, oil, or rust. Depending on the condition of the steel, chemical cleaning is used to achieve a clean and smooth surface. After applying the powder coating, the products are heated in an oven to cure the coating. This ensures that the paint adheres properly and provides long-term protection. The heat causes the powder to melt and form a continuous film **(A3)**. All manufacturing waste is sent to a local waste management facility, where it undergoes a waste treatment process **(A3)**. The finished products are packaged for transportation.

TRANSPORT AND INSTALLATION (A4-A5)

Transportation impacts occurred from final products delivery to the construction site (A4), covering fuel direct exhaust emissions, environmental impacts of fuel production, as well as related infrastructure emissions.

Considering this phase of the life cycle, the transportation endpoint is not limited to a single location, as our customers may have multiple destinations. This variability results in differences in transport distances and the types of vehicles required. Therefore, the travel distances used in the transportation data are theoretical values.

When the product is produced and packaged, it is distributed from Elfa Manufacturing Sweden AB. The most common distribution scenario in the Swedish market is used for this assessment. The product is transported by truck to a distribution center in Stockholm, a route of 278 km. The truck has a size of 22,5t, is diesel-fuelled, and has a load factor of 95%, which means full load. From the distribution center, the product is distributed to the end customer, an average route of 30 km. The truck has a size of 2,5t, is HVO fuelled and has a load factor of 50% (A4).

Upon installing the products, the packaging materials are removed, leading to the generation of packaging waste.
Packaging materials (wood, cardboard, and plastic) are recycled or incinerated for energy recovery, which is considered in this model **(A5)**.
Transportation distance to the waste treatment plant and the landfill is assumed to be 50 km, the transportation method is assumed to be a lorry.

As the final product is delivered in its complete form and requires only installation, no material losses are expected during the installation phase. Furthermore, the process does not involve any construction practices that could result in material waste. Installation consists solely of mounting and fastening using standard hand tools, and no additional materials are required.

PRODUCT USE AND MAINTENANCE (B1-B7)

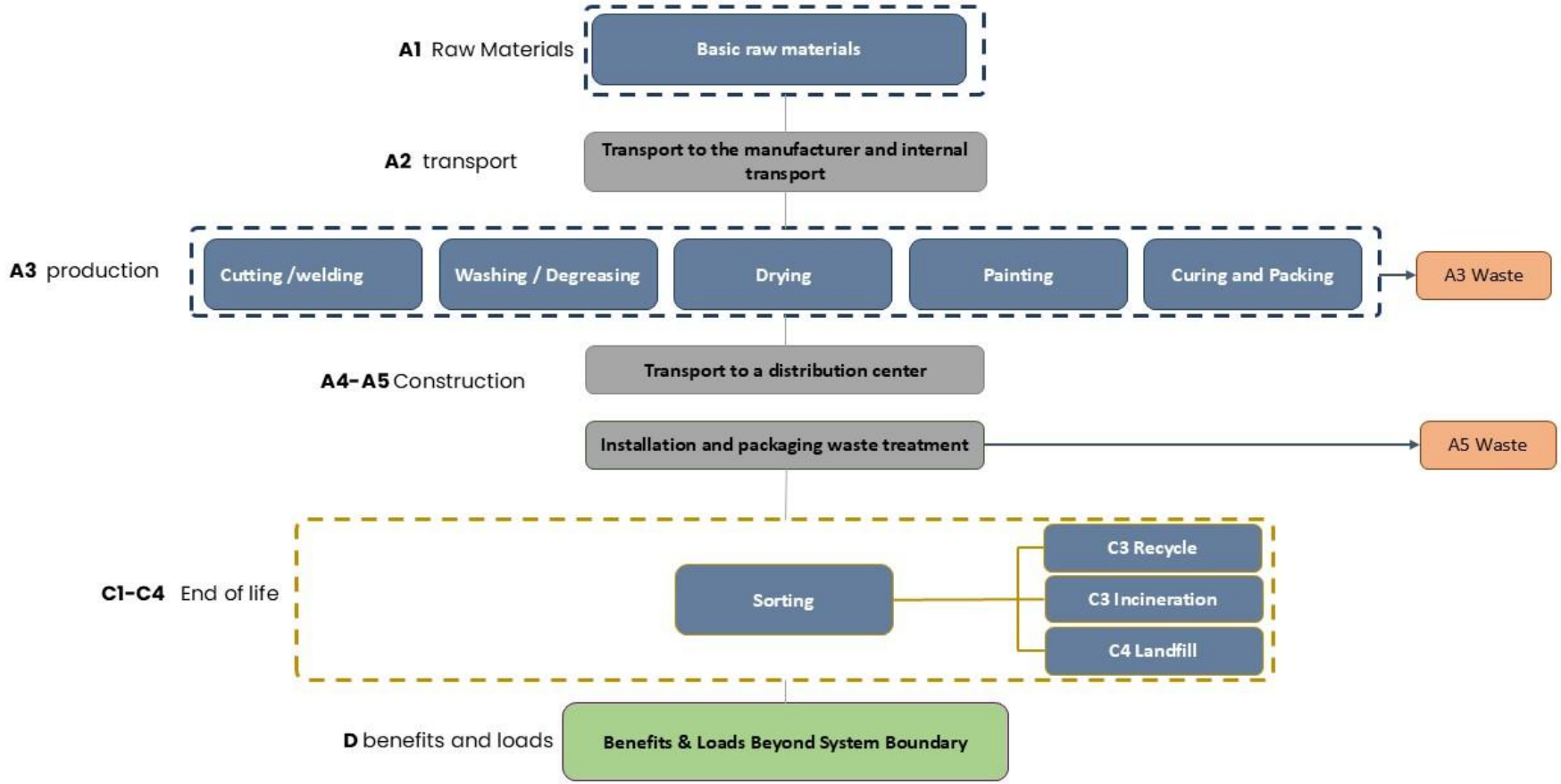
Use stage is not considered in the assessment.
Air, soil, and water impacts during the use phase have not been studied.

PRODUCT END OF LIFE (C1-C4, D)

Since the consumption of energy and natural resources is negligible for disassembling the end-of-life product, the impacts of demolition are assumed to be zero **(C1)**. After approximately 20 years of service life, it is assumed that the product will be transported to the nearest treatment facility, located about 50 km away, via lorry **(C2)**. It is generally assumed that all waste is collected and professionally separated after demolition on the construction site. The type of waste treatment is determined based on the material class. According to the World Steel Association, the recycling rate for steel from construction is 85% **(C3)**. The remaining 15% is taken to the landfill for final disposal **(C4)**.
Due to the uncertainty about the selected disposal method, the most reasonable scenario was adopted, considering landfilling as the disposal method. Benefits and loads from replacing virgin steel production due to recycling at the end of life are associated with module **(D)**. Due to the recycling process, the end-of-life product is converted back into recycled steel **(D)**; however, the benefit is considered only for the virgin steel, not the recycled steel. Waste of packaging materials in **(A5)** has benefits and loads that are also considered in module **(D)**.

MANUFACTURING PROCESS

Manufacturing process and system boundary



LIFE-CYCLE ASSESSMENT

CUT-OFF CRITERIA

The study does not exclude any modules or processes that are mandated by the reference standard or the applicable PCR. No hazardous materials or substances are excluded. The study accounts for all major raw material and energy inputs. All input and output flows for unit processes, for which data is available, are included in the calculations. No single unit process has been omitted if it contributes more than 1% to the total mass or energy flows. Additionally, the total amount of neglected input and output flows per module does not exceed 5% of the total energy use or mass.

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 pages 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. 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/AC2021 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	No allocation
Packaging material	Allocated by mass or volume
Ancillary materials	Allocated by mass or volume
Manufacturing energy and waste	Allocated by mass or volume

AVERAGES AND VARIABILITY

Type of average	Multiple products and multiple factories
Grouping methods	Based on a representative product
Variation in GWP-fossil for A1-A3 (%)	-8 / +2 %

The products in this EPD are produced at different manufacturing sites: Elfa Manufacturing AB in Sweden and Elfa Manufacturing Poland in Poland, with an average product designed to represent items with similar material compositions.
The reported Global Warming Potential – fossil (GWP-fossil) for the production stage (A1–A3) is 3.23 kg CO_2e per declared unit, with a variation range of -8% to +2%, primarily due to differences in the composition and proportion of steel components used.

On average, the material composition consists of approximately 72% steel base, 25% structural tubes, and 3% surface treatment coating. All product families are based on the same primary raw materials and are manufactured using the same core processes. However, variations in the Global Warming Potential – fossil impact arise primarily due to differences in material composition.
For instance, one product family includes approximately 0.5% nickel in its representative material formulation. As nickel is associated with a relatively high carbon footprint during extraction and processing, this contributes to a higher GWP-fossil value for that product family.

In contrast, other product families are composed of up to 97% steel and approximately 3% powder coating. These materials, while still contributing to environmental impact, generally result in a lower overall GWP-fossil compared to compositions containing higher-impact materials such as nickel. These differences in material ratios directly influence the life cycle assessment results, especially for indicators such as climate change impact (GWP-fossil), and are reflected accordingly in the EPD results

To create a representative average, the following product variants were considered :

- Frame sides, angled shelves, storing board, and worksurface Products were taken to be the best case for GWP fossil.
- Closet rods products were taken to be the worst case for GWP fossil.
- Representative products were taken to be the case study for GWP fossils.

For the variance against the representative products GWP fossil is shown below:
MAX GWP (Fossil) value 3,28E+01 kg CO2e / + 2 %
MIN GWP (Fossil) value: 2,97E+01 kg CO2e / - 8 %
Representative products (Fossil) value: 3,23E+01 kg CO2e

Variance from Representative products (max +/- 50%):
+ 2 % Max
- 8 % Min

This variation analysis confirms that the reported average product is representative of the product group, and that all GWP-fossil results remain well within the allowable ±50% variation threshold as defined by EPD Hub PCR v3.4, GPI v2.11, and Annex 1.

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

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.

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	2,70E+00	8,54E-02	3,64E-01	3,15E+00	3,38E-02	9,17E-02	MND	MND	MND	MND	MND	MND	MND	0,00E+00	5,38E-03	1,87E-02	3,75E-03	-1,08E+00
GWP – fossil	kg CO_2e	2,70E+00	8,54E-02	4,45E-01	3,23E+00	3,38E-02	9,41E-03	MND	MND	MND	MND	MND	MND	MND	0,00E+00	5,38E-03	1,86E-02	3,75E-03	-1,08E+00
GWP – biogenic	kg CO_2e	0,00E+00	0,00E+00	-8,23E-02	-8,23E-02	0,00E+00	8,23E-02	MND	MND	MND	MND	MND	MND	MND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
GWP – LULUC	kg CO_2e	1,03E-03	3,16E-05	2,20E-03	3,26E-03	1,32E-05	2,15E-06	MND	MND	MND	MND	MND	MND	MND	0,00E+00	2,41E-06	2,30E-05	7,11E-07	6,80E-05
Ozone depletion pot.	kg $CFC\text{-}_{11}e$	3,00E-08	1,67E-09	7,27E-09	3,89E-08	7,06E-10	2,86E-11	MND	MND	MND	MND	MND	MND	MND	0,00E+00	7,95E-11	2,51E-10	3,60E-11	-3,67E-09
Acidification potential	mol H^+e	1,50E-02	1,81E-04	2,17E-03	1,73E-02	7,98E-05	1,09E-05	MND	MND	MND	MND	MND	MND	MND	0,00E+00	1,84E-05	2,22E-04	8,68E-06	-4,30E-03
EP-freshwater[2)]	kg Pe	3,11E-02	5,93E-06	1,39E-04	3,12E-02	2,36E-06	5,27E-07	MND	MND	MND	MND	MND	MND	MND	0,00E+00	4,19E-07	1,20E-05	1,06E-07	-4,84E-04
EP-marine	kg Ne	1,59E-03	4,29E-05	4,42E-04	2,08E-03	2,09E-05	1,35E-05	MND	MND	MND	MND	MND	MND	MND	0,00E+00	6,03E-06	4,91E-05	3,32E-06	-9,73E-04
EP-terrestrial	mol Ne	4,12E-02	4,63E-04	4,16E-03	4,58E-02	2,27E-04	4,07E-05	MND	MND	MND	MND	MND	MND	MND	0,00E+00	6,56E-05	5,55E-04	3,63E-05	-1,06E-02
POCP ("smog")[3)]	kg NMVOCe	9,26E-03	2,94E-04	1,41E-03	1,10E-02	1,39E-04	1,38E-05	MND	MND	MND	MND	MND	MND	MND	0,00E+00	2,70E-05	1,64E-04	1,36E-05	-3,62E-03
ADP-minerals & metals[4)]	kg Sbe	5,18E+00	2,95E-07	8,79E-07	5,18E+00	9,68E-08	1,14E-08	MND	MND	MND	MND	MND	MND	MND	0,00E+00	1,50E-08	1,32E-06	2,12E-09	-1,04E-05
ADP-fossil resources	MJ	2,75E+01	1,20E+00	1,10E+01	3,97E+01	5,08E-01	2,52E-02	MND	MND	MND	MND	MND	MND	MND	0,00E+00	7,81E-02	2,50E-01	2,96E-02	-9,88E+00
Water use[5)]	m^3e depr.	5,05E-01	6,04E-03	1,12E-01	6,24E-01	2,60E-03	8,19E-04	MND	MND	MND	MND	MND	MND	MND	0,00E+00	3,86E-04	4,50E-03	9,86E-05	-1,60E-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	1,43E-07	6,06E-09	1,09E-08	1,59E-07	3,30E-09	1,64E-10	MND	MND	MND	MND	MND	MND	MND	0,00E+00	5,39E-10	3,01E-09	1,98E-10	-7,17E-08
Ionizing radiation[6)]	kBq U235e	9,99E-02	1,60E-03	3,89E-01	4,90E-01	6,12E-04	1,11E-04	MND	MND	MND	MND	MND	MND	MND	0,00E+00	6,80E-05	2,12E-03	2,29E-05	4,35E-02
Ecotoxicity (freshwater)	CTUe	4,85E+00	1,69E-01	1,21E+00	6,22E+00	5,99E-02	4,38E-02	MND	MND	MND	MND	MND	MND	MND	0,00E+00	1,10E-02	1,46E-01	4,98E-03	-2,66E+00
Human toxicity, cancer	CTUh	-2,09E-09	1,44E-11	1,33E-10	-1,94E-09	5,63E-12	1,62E-12	MND	MND	MND	MND	MND	MND	MND	0,00E+00	8,88E-13	1,66E-11	5,36E-13	-1,72E-10
Human tox. non-cancer	CTUh	2,69E-08	7,51E-10	3,75E-09	3,15E-08	3,28E-10	8,06E-11	MND	MND	MND	MND	MND	MND	MND	0,00E+00	5,06E-11	1,13E-09	1,04E-10	-8,43E-09
SQP[7)]	-	2,50E+00	7,02E-01	6,62E+00	9,82E+00	5,11E-01	2,24E-02	MND	MND	MND	MND	MND	MND	MND	0,00E+00	7,87E-02	4,87E-01	6,12E-02	-6,36E+00

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	2,09E+00	2,18E-02	3,05E+00	5,17E+00	8,27E-03	-8,07E-01	MND	MND	MND	MND	MND	MND	MND	0,00E+00	1,07E-03	4,66E-02	3,33E-04	-1,17E+00
Renew. PER as material	MJ	0,00E+00	0,00E+00	7,10E-01	7,10E-01	0,00E+00	-7,10E-01	MND	MND	MND	MND	MND	MND	MND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Total use of renew. PER	MJ	2,09E+00	2,18E-02	3,76E+00	5,88E+00	8,27E-03	-1,52E+00	MND	MND	MND	MND	MND	MND	MND	0,00E+00	1,07E-03	4,66E-02	3,33E-04	-1,17E+00
Non-re. PER as energy	MJ	3,26E+01	1,20E+00	1,07E+01	4,45E+01	5,08E-01	-2,18E-01	MND	MND	MND	MND	MND	MND	MND	0,00E+00	7,81E-02	2,50E-01	-2,75E-01	-9,88E+00
Non-re. PER as material	MJ	0,00E+00	0,00E+00	2,80E-01	2,80E-01	0,00E+00	-2,80E-01	MND	MND	MND	MND	MND	MND	MND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Total use of non-re. PER	MJ	3,26E+01	1,20E+00	1,10E+01	4,48E+01	5,08E-01	-4,97E-01	MND	MND	MND	MND	MND	MND	MND	0,00E+00	7,81E-02	2,50E-01	-2,75E-01	-9,88E+00
Secondary materials	kg	3,41E-01	5,66E-04	3,51E-02	3,77E-01	2,20E-04	3,44E-05	MND	MND	MND	MND	MND	MND	MND	0,00E+00	3,32E-05	3,05E-04	8,08E-06	6,16E-01
Renew. secondary fuels	MJ	2,35E-04	6,98E-06	1,34E-02	1,37E-02	2,77E-06	2,52E-07	MND	MND	MND	MND	MND	MND	MND	0,00E+00	4,22E-07	1,42E-05	1,59E-07	-8,92E-05
Non-ren. secondary fuels	MJ	3,14E-22	0,00E+00	0,00E+00	3,14E-22	0,00E+00	0,00E+00	MND	MND	MND	MND	MND	MND	MND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Use of net fresh water	m^3	8,66E-01	1,67E-04	1,12E-02	8,78E-01	7,50E-05	-3,94E-05	MND	MND	MND	MND	MND	MND	MND	0,00E+00	1,15E-05	1,33E-04	-4,58E-05	-1,88E-03

8) PER = Primary energy resources.

END OF LIFE – WASTE

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Hazardous waste	kg	1,19E-01	1,78E-03	5,13E-02	1,73E-01	7,35E-04	3,32E-04	MND	MND	MND	MND	MND	MND	MND	0,00E+00	1,32E-04	1,63E-03	3,54E-05	-3,56E-01
Non-hazardous waste	kg	1,32E+00	3,80E-02	1,27E+00	2,63E+00	1,47E-02	8,36E-02	MND	MND	MND	MND	MND	MND	MND	0,00E+00	2,45E-03	5,90E-02	1,07E-01	-2,84E+00
Radioactive waste	kg	3,44E-04	3,98E-07	8,32E-05	4,27E-04	1,51E-07	2,81E-08	MND	MND	MND	MND	MND	MND	MND	0,00E+00	1,67E-08	5,43E-07	5,64E-09	1,13E-05

END OF LIFE – OUTPUT FLOWS

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Components for re-use	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	MND	MND	MND	MND	MND	MND	MND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Materials for recycling	kg	1,31E-03	0,00E+00	5,47E-01	5,49E-01	0,00E+00	3,62E-02	MND	MND	MND	MND	MND	MND	MND	0,00E+00	0,00E+00	8,25E-01	0,00E+00	0,00E+00
Materials for energy rec	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,20E-02	MND	MND	MND	MND	MND	MND	MND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Exported energy	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	8,76E-02	MND	MND	MND	MND	MND	MND	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	3,67E-02	MND	MND	MND	MND	MND	MND	MND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Exported energy –	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	5,09E-02	MND	MND	MND	MND	MND	MND	MND	0,00E+00	0,00E+00	0,00E+00	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	2,48E+00	8,48E-02	4,45E-01	3,01E+00	3,36E-02	1,31E-02	MND	MND	MND	MND	MND	MND	MND	0,00E+00	5,35E-03	1,86E-02	3,62E-03	-1,08E+00
Ozone depletion Pot.	kg CFC_{-11}e	1,35E-08	1,33E-09	6,09E-09	2,09E-08	5,61E-10	2,33E-11	MND	MND	MND	MND	MND	MND	MND	0,00E+00	6,34E-11	2,06E-10	2,86E-11	-4,03E-09
Acidification	kg SO_2e	1,11E-02	1,45E-04	1,79E-03	1,30E-02	6,33E-05	8,21E-06	MND	MND	MND	MND	MND	MND	MND	0,00E+00	1,40E-05	1,78E-04	6,42E-06	-3,45E-03
Eutrophication	kg PO_4^3e	2,84E-03	3,63E-05	8,01E-04	3,68E-03	1,58E-05	6,84E-06	MND	MND	MND	MND	MND	MND	MND	0,00E+00	3,41E-06	2,58E-05	2,26E-06	-6,41E-04
POCP (“smog”)	kg C_2H_4e	1,04E-03	1,51E-05	1,17E-04	1,17E-03	6,46E-06	1,55E-06	MND	MND	MND	MND	MND	MND	MND	0,00E+00	1,25E-06	1,06E-05	9,92E-07	-5,46E-04
ADP-elements	kg Sbe	2,34E-05	2,88E-07	8,57E-07	2,45E-05	9,45E-08	1,11E-08	MND	MND	MND	MND	MND	MND	MND	0,00E+00	1,46E-08	1,32E-06	2,08E-09	-1,04E-05
ADP-fossil	MJ	2,28E+01	1,17E+00	5,85E+00	2,98E+01	4,98E-01	2,33E-02	MND	MND	MND	MND	MND	MND	MND	0,00E+00	7,70E-02	2,13E-01	2,92E-02	-1,07E+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	2,70E+00	8,54E-02	4,47E-01	3,23E+00	3,38E-02	9,41E-03	MND	MND	MND	MND	MND	MND	MND	0,00E+00	5,38E-03	1,87E-02	3,75E-03	-1,08E+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

EPD Hub declares that this EPD is verified in accordance with ISO 14025 by an independent, third-party verifier and has been generated using a pre-verified tool. 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, by the Environmental Product Declaration and by its project report from the requirements outlined in the corresponding product category regulations based on EN 15804+A2.

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. EPD Hub confirms that it possesses sufficient knowledge and experience in construction products and the relevant standards to carry the verification.

The company-specific data and upstream and downstream data have been examined as regards plausibility and consistency; the manufacturer(s) or group of manufacturers are responsible for its factual integrity.

EPD Hub has performed a detailed examination of the pre-verified tool and underlying data to ensure that there are no deviations in the studied Environmental Product Declaration (EPD), its Life Cycle Assessment (LCA), and project report. The tool is implemented according to the procedural and methodological requirements outlined in ISO 14025:2010, ISO 14040/14044, EN 15804+A2, and EPD Hub Core Product Category Rules version 1.1 and General Program Instructions version 1.2.

Tool verifier: Hai Ha Nguyen
Tool verification validity: 20 Dec 2024 - 19 Dec 2027

Lucas Rodriguez, an authorized verifier acting for EPD Hub Limited.
29.06.2025

ANNEX 1: CONVERSION TABLE FOR PRODUCT STAGE [A1-A3] GWP EN15084+A2, PEF

Article number	*GTIN number*	*Product Description*	*Product Weight [kg]*	*GWP[A1-A3]:kg CO_2e/kg item*
200413	7315492004133	4 runner frame sides D: 54 White	1,58	4,97
200428	7315492004287	4 runner frame sides D: 54 Graphite	1,58	4,97
200713	7315492007134	7 runner frame sides D: 54 White	2,71	8,52
200728	7315492007288	7 runner frame sides D: 54 Graphite	2,71	8,52
201013	7315492010134	10 runner frame sides D: 54 White	3,88	12,23
201028	7315492010288	10 runner frame sides D: 54 Graphite	3,88	12,23
4900066	7315490000885	Frame 5-run 535 mm, pair Graphite	1,83	5,76
280425	7315492804252	Frame 4-run Mini, pair Graphite	1,38	4,34
280713	7315492807130	Frame 7-run Mini, pair White	2,46	7,76
280725	7315492807253	Frame 7-run Mini, pair Graphite	2,46	7,76
281013	7315492810130	Frame 10-run Mini, pair White	3,45	10,86
281025	7315492810253	Frame 10-run Mini, pair Graphite	3,45	10,86
401010	7315494010101	Freestanding upright 1036 mm White	2,14	6,75
402110	7315494021107	Freestanding upright 2114 mm White	4,21	13,27
470910	7315494709104	Closet Rod Holder White	0,04	0,14
470928	7315494709289	Closet Rod Holder Graphite	0,04	0,14
471010	7315494710100	Closet rod holder metal wall-wall silver, pair	0,11	0,34
620405	7315496204058	Closet Rod 48 cm Silver	0,20	0,63
620605	7315496206052	Closet Rod 63,5 cm Silver	0,27	0,83
620905	7315496209053	Closet Rod 930mm Silver	0,39	1,23
621205	7315496212053	Closet Rod 1245mm Silver	0,52	1,63
621805	7315496218055	Closet Rod 1850mm Silver	0,78	2,46
6200048	7315490002315	Closet Rod holder Matte grey	0,05	0,14
621950	7315496219502	Closet Rod 625mm Matte white	0,27	0,83

621951	7315496219519	Closet Rod 625mm Matte grey	0,27	0,83
622051	7315496227514	Closet Rod 920mm Matte grey	0,40	1,26
622150	7315496221505	Closet Rod 1232mm Matte white	0,52	1,64
622151	7315496221512	Closet Rod 1232mm Matte grey	0,52	1,64
622350	7315496223509	Closet Rod holder Matte white	0,05	0,14
622650	7315496226500	Closet Rod side hold Matte white	0,05	0,14
622651	7315496226517	Closet Rod side hold Matte grey	0,05	0,14
471110	7315494711107	Closet Rod holder set White	0,09	0,28
491688	7315494916885	Valet Rod D: 30 Silver	0,20	0,64
602788	7315496027886	Valet Rod D: 40 Silver	0,25	0,79
605788	7315496057883	Expandable Valet Rod	0,20	0,64
485810	7315494858109	Rod Holder	0,20	0,63
413010	7315494130106	Bracket with Closet Rod holder 320 mm White	0,28	0,87
453110	7315494531101	Shelf/tray reversible metal W: 60 D: 10 White	0,63	1,98
453125	7315494531255	Shelf/tray reversible metal W: 60 D: 10 Graphite	0,63	1,98
453310	7315494533105	Shelf/tray reversible metal W: 60 D: 25 White	1,40	4,41
453325	7315494533259	Shelf/tray reversible metal W: 60 D: 25 Graphite	1,40	4,41
453410	7315494534102	Shelf/Tray White	2,10	6,62
467010	7315494670107	Shelf end bracket 300 mm white, pair	1,32	4,16
454410	7315494544101	45cm Angled Solid Metal Shelf White	1,50	4,73
454510	7315494545108	Angled shelf metal W: 60 H: 35 White	2,22	6,99
454525	7315494545252	Angled shelf metal W: 60 H: 35 Graphite	2,22	6,99
454625	7315494546259	Angled Shelf Graphite	3,00	9,45
454751	7315494547515	Angled shelf 45 Matte grey	1,50	4,73
454850	7315494548505	Angled shelf 60 Matte white	2,22	6,99
454851	7315494548512	Angled shelf 60 Matte grey	2,22	6,99
454951	7315494549519	Angled shelf 90 Matte grey	3,00	9,45
455050	7315494550508	Shelf tray 60 Matte white	0,74	2,33
455051	7315494550515	Shelf tray 60 Matte grey	0,74	2,33

4500063	7315490000793	Work surface W: 60 D: 52 Matte grey	3,40	10,71
4500064	7315490000809	Work surface W: 90 D: 52 Matte grey	4,93	15,53
4500065	7315490000816	Work surface W: 120 D: 52 Matte grey	6,54	20,60
4700120	7315490000779	Work Bench 1821mm Matte grey	27,00	85,05
4700121	7315490000786	Work bench legs Matte grey	17,42	54,87
464310	7315494643101	Book Support White	0,29	0,93
464325	7315494643255	Book Support Graphite	0,29	0,93
465016	7315494650161	Book support wallband/Hang standard 200 mm White, pkg/2	0,24	0,75
465110	7315490003411	Book support for wallband 250 mm White	0,14	0,45
465125	7315490003428	Book support for wallband 250 mm Graphite	0,14	0,45
478310	7315494783104	Storing board W: 60 White	1,95	6,14
478610	7315494786105	Storing board W: 90 H: 38 White	2,90	9,14
478710	7315494787102	Board Wall Mounts set/2 White	0,58	1,81
475710	7315494757105	Board Tray White	0,26	0,82
333810	7315493338107	Storing board low center White	0,46	1,43
4700100	7315490000939	Tall Cabinet Frame Matte grey	34,02	107,16
4700101	7315490002711	Low cabinet chest drawer Matte grey	5,00	15,75
4700102	7315490002728	Low cabinet shall drawer Matte grey	5,70	17,96
4700103	7315490002735	Low cabinet deep drawer Matte grey	6,90	21,74
4700104	7315490001011	Upper Cabinet Shelf Matte grey	1,12	3,53
4700105	7315490000984	Lower Cabinet Shelf Matte grey	1,76	5,54
4700106	7315490000953	Tall Cabinet Shelf Matte grey	2,90	9,14
4700107	7315490001004	Upper Cabinet Doors Matte grey	3,45	10,87
4700109	7315490000946	Tall Cabinet Doors Matte grey	11,76	37,04
4700099	7315490002704	Lower cabinet frame for drawers Matte grey	16,00	50,40
4700097	7315490000991	Upper cabinet frame Matte grey	10,10	31,82
4700124	7315490000762	Upper cabinet wall-mounting kit	0,30	0,95
4700098	7315490000960	Lower cabinet frame for doors Matte grey	15,44	48,64
6000154	7315490001264	Back Panel W: 60 holder Matte White	0,51	1,60

6000155	7315490001271	Back Panel W: 60 holder Matte grey	0,51	1,60
4200120	7315490001035	Storage track W: 60 Matte grey	0,31	0,98
473110	7315494731105	Storage track W: 60 White	0,53	1,65
473210	7315494732102	Storage Track W: 90 White	0,71	2,25
417650	7315494176500	Bracket hook rack D: 40 Matte white	0,34	1,07
417651	7315494176517	Bracket hook rack D: 40 Matte grey	0,34	1,07
415710	7315494157103	Bracket for solid shelf 570 mm White	0,52	1,65
411210	7315494112102	Bracket for solid shelf 120 mm White	0,06	0,20
415250	7315494152504	Bracket 52 Matte white	0,46	1,46
415251	7315494152511	Bracket 52 Matte grey	0,46	1,46
4700118	7315490000731	Pegboard Shelf Matte grey	0,27	0,86
4700131	7315490002391	Pegboard 60 Matte grey	3,72	11,72
4700132	7315490002407	Pegboard 90 Matte grey	5,50	17,33
4700114	7315490000694	Pegboard multi-tool holder Matte grey	0,15	0,46
4700113	7315490000687	Pegboard wrench holder Matte grey	0,10	0,30
6200050	7315490002636	Gliding Tie- and belt rack D: 40 Matte grey	0,68	2,14
6200051	7315490002643	Gliding Tie- and belt rack D: 40 Matte white	0,68	2,14