ENVIRONMENTAL PRODUCT DECLARATION

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

Elfa storage -Wallmounted Framework
Elfa Manufacturing Sweden AB

EPD HUB, HUB-1386
Published on 15.05.2024, last updated on 15.05.2024, valid until 15.05.2029

Created with One Click LCA

GENERAL INFORMATION

MANUFACTURER

Manufacturer	Elfa Manufacturing Sweden AB
Address	Elfagatan 5, 593 32 Västervik, Sweden
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+A2:2019 and ISO 14025
PCR	EPD Hub Core PCR version 1.0, 1 Feb 2022
Sector	Construction product
Category of EPD	Third-party verified EPD
Parent EPD number	
Scope of the EPD	Cradle to gate with options, A4-A5, and modules C1-C4, D
EPD author	Heba Alwan
EPD verification	Independent verification of this EPD and data, according to ISO 14025: ☐ Internal verification ☑ External verification
EPD verifier	Imane Uald lamkaddam, 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	Elfa Storage – Wallmounted Framework
Additional labels	-
Product reference	414210
Place of production	Västervik, Sweden.
Period for data	1/01/2023 - 31/12/2023
Averaging in EPD	No averaging
Variation in GWP-fossil for A1-A3	-

ENVIRONMENTAL DATA SUMMARY

Declared unit	1 kg of painted steel coil products
Declared unit mass	1 kg
GWP-fossil, A1-A3 (kgCO2e)	3.10E+00
GWP-total, A1-A3 (kgCO2e)	2.99E+00
Secondary material, inputs (%)	2.81
Secondary material, outputs (%)	82.5
Total energy use, A1-A3 (kWh)	36.3
Total water use, A1-A3 (m3e)	0.06

PRODUCT AND MANUFACTURER

ABOUT THE MANUFACTURER

Elfa Manufacturing Sweden AB is a subsidiary of the Elfa Group, established in 1948. Our product range encompasses durable and customizable home storage solutions, including wall-mounted or freestanding storage systems, top tracks, hang standards, brackets, shelves, drawers, and sliding doors.

The Elfa Group currently operates three production sites, which, in addition to the site in Västervik, include one site in Koszalin and the sliding door manufacturing site in Mullsjö, Sweden. In addition, there are sales companies in Norway, Finland, Denmark, France, and Germany.

The total floor area of the site in Västervik is approximately 19000 square meters. This site primarily manufactures all main storage system components, excluding wire and mesh baskets. The operations are categorized as a standard mechanical workshop and metalworking facility.

At Elfa, we are deeply committed to a sustainable future and are proud signatories to the UN Global Compact. Our high rankings on networks like ecoVadis attest to our dedication. We've set ambitious environmental and climate sustainability targets, prioritizing reducing our carbon footprint and developing products with longevity, quality, and timeless design to encourage circular flows. Additionally, all of Elfa's production sites hold ISO 14001:2015 certification.

PRODUCT DESCRIPTION

This EPD covers Elfa's wall-mounted framework products, including the top track, hang standard, bracket, and wallband. These products serve as the backbone of our storage solutions and are designed to be mounted on walls. All items are powder-coated and available in a range of colours. The table below shows the product series.

The reference product for this EPD is Bracket click-in D: 40 White (12x420x52) mm, which weighs 0.300 kg. The outcomes can be scaled linearly for articles listed in Annex 1, which shows all Elfa storage wall-mounted products, article numbers, and product descriptions covered by this EPD.

Further information can be found at WWW.ELFA.COM

Table: product series

Product series	Size range WXDXH [mm]	Weighing range [kg]
Bracket	12X12X52- 13X534X54	0.1- 0.49
Top track	641X8X36 -2166X8X36	0.35-1.84
Hang standard	25X23X988 -25X23X2300	0.87-2.50
Wallband	25x16x316 -25x16x2396	0.22-1.63

PRODUCT RAW MATERIAL MAIN COMPOSITION

Raw material category	Amount, mass- %	Material origin
Metals	97	EU
Minerals	3	EU
Fossil materials	0	-
Bio-based materials	0	-

BIOGENIC CARBON CONTENT

Product's biogenic carbon content at the factory gate

Biogenic carbon content in product, kg C	0
Biogenic carbon content in packaging, kg C	0.038

FUNCTIONAL UNIT AND SERVICE LIFE

Declared unit	1 kg of painted steel coil products
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	Deconstr./demol.	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.

The main raw material of the product is 97 % steel and 3% powder coating (A1). All raw materials are transported via lorry to the production facility located in Sweden (A2). Elfa Manufacturing Sweden is certified according to ISO 14001:2015. All of the electricity consumed throughout the production process is renewable energy with a certificate of origin. Steel in coil form is cut to size and formed using standard steel working techniques of bending, pressing, 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 occurring from final products delivery to construction site (A4) cover fuel direct exhaust emissions, environmental impacts of fuel production, as well as related infrastructure emissions.

When the product is produced and packaged, it is distributed from Elfa Manufacturing 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 Standard solution 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%.

Packaging materials (wood, cardboard, and plastic) are recycled or incinerated for energy recovery, which is considered in this module (A5), as well as direct emissions to the air of carbon dioxide to balance emissions of biogenic CO2. 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.

PRODUCT USE AND MAINTENANCE (B1-B7)

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

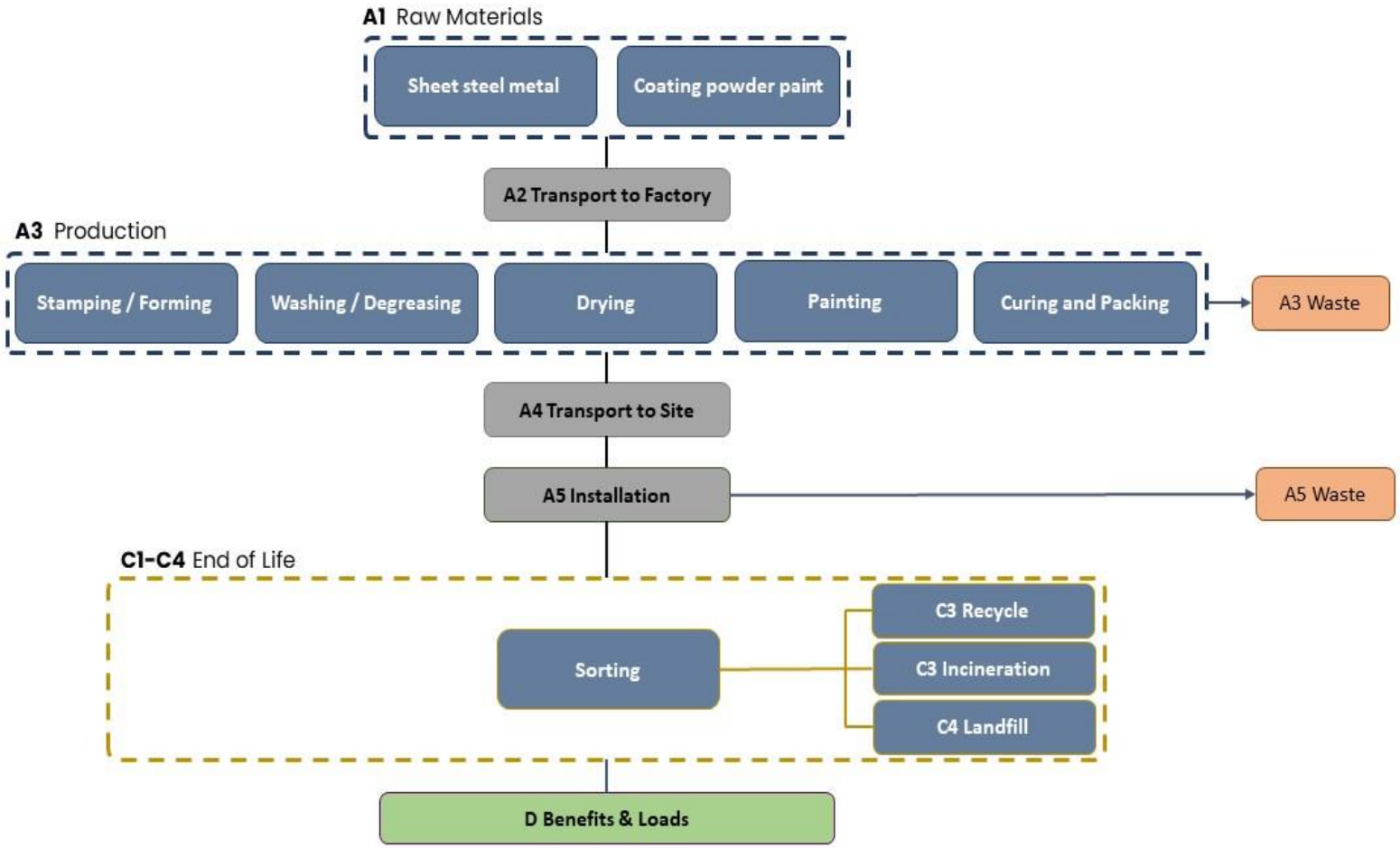
PRODUCT END OF LIFE (C1-C4, D)

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, the collected product is assumed to be sent to the closest treatment facilities by lorry, which is estimated to be 50 km away (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). Given the inherent uncertainty regarding the actual disposal method selected, the most plausible and 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 for the recycled steel. Waste of packaging materials in A5 has benefits and loads that are also considered in module D.

Manufacturing process and system boundary



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 materials 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.
Fastening materials are excluded from A5 since they make up only a tiny portion of the installed product and are not necessarily included in the scope of delivery. The paint coating has not been separated from the steel for waste processing since it is expected that the paint is not removed before recycling and any implications are considered minimal.

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:

Raw materials are based on product recipes whereas packaging materials, ancillary materials, and manufacturing energy and waste are known on the factory level and allocated to 1 kg of product.

Data type	Allocation
Raw materials	No allocation
Packaging materials	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	No averaging
Averaging method	Not applicable
Variation in GWP-fossil for A1-A3	%

There is no average result considered in this study since this EPD refers to one kg of sheet steel painted products. This EPD is product and factory-specific and does not contain average calculations. Primary data refers to the manufacturing site in Västervik, Sweden. The data of a bracket click-in product with a weight of 0,300 KG (article number 414210) is chosen as a reference product. The results can be scaled linearly for articles listed in 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 v3.8, Plastics Europe, Federal LCA Commons and One Click LCA databases as sources of environmental data.

ENVIRONMENTAL IMPACT DATA

CORE ENVIRONMENTAL IMPACT INDICATORS – EN 15804+A2, PEF

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	2,51E+00	5,25E-02	4,28E-01	2,99E+00	1,12E-01	1,42E-01	MND	MND	MND	MND	MND	MND	MND	MNR	8,31E-03	1,81E-02	4,35E-03	-1,02E+00
GWP – fossil	kg CO_2e	2,51E+00	5,25E-02	5,37E-01	3,10E+00	1,12E-01	8,06E-03	MND	MND	MND	MND	MND	MND	MND	MNR	8,31E-03	1,80E-02	4,35E-03	-1,02E+00
GWP – biogenic	kg CO_2e	1,28E-04	1,24E-06	-1,34E-01	-1,34E-01	0,00E+00	1,34E-01	MND	MND	MND	MND	MND	MND	MND	MNR	0,00E+00	0,00E+00	0,00E+00	0,00E+00
GWP – LULUC	kg CO_2e	6,45E-04	1,97E-05	2,53E-02	2,59E-02	5,91E-05	1,81E-06	MND	MND	MND	MND	MND	MND	MND	MNR	3,26E-06	2,37E-05	1,05E-06	2,17E-04
Ozone depletion pot.	kg CFC_{-11}e	1,04E-08	1,24E-08	4,05E-08	6,33E-08	2,46E-08	3,27E-10	MND	MND	MND	MND	MND	MND	MND	MNR	1,92E-09	2,23E-09	4,06E-10	-3,94E-08
Acidification potential	mol H^+e	6,22E-03	2,08E-04	2,69E-03	9,11E-03	5,50E-04	1,36E-05	MND	MND	MND	MND	MND	MND	MND	MNR	3,37E-05	2,29E-04	9,88E-06	-4,24E-03
EP-freshwater[2)]	kg Pe	4,34E-06	4,06E-07	2,43E-05	2,91E-05	1,21E-06	6,31E-08	MND	MND	MND	MND	MND	MND	MND	MNR	5,83E-08	9,68E-07	1,31E-08	-4,25E-05
EP-marine	kg Ne	1,38E-03	5,84E-05	6,88E-04	2,13E-03	1,64E-04	1,37E-05	MND	MND	MND	MND	MND	MND	MND	MNR	1,01E-05	4,84E-05	3,41E-06	-8,95E-04
EP-terrestrial	mol Ne	1,49E-02	6,45E-04	7,28E-03	2,29E-02	1,82E-03	4,54E-05	MND	MND	MND	MND	MND	MND	MND	MNR	1,11E-04	5,60E-04	3,74E-05	-1,04E-02
POCP ("smog")[3)]	kg NMVOCe	4,35E-03	2,12E-04	1,93E-03	6,49E-03	5,80E-04	1,46E-05	MND	MND	MND	MND	MND	MND	MND	MNR	3,40E-05	1,54E-04	1,16E-05	-5,19E-03
ADP-minerals & metals[4)]	kg Sbe	2,53E-06	1,35E-07	7,94E-06	1,06E-05	1,12E-06	1,98E-08	MND	MND	MND	MND	MND	MND	MND	MNR	2,95E-08	2,43E-06	2,83E-09	-1,93E-05
ADP-fossil resources	MJ	2,86E+01	8,00E-01	5,04E+01	7,98E+01	1,65E+00	3,09E-02	MND	MND	MND	MND	MND	MND	MND	MNR	1,23E-01	2,45E-01	2,83E-02	-8,72E+00
Water use[5)]	m^3e depr.	5,35E-01	3,63E-03	1,90E+00	2,44E+00	1,01E-02	1,82E-03	MND	MND	MND	MND	MND	MND	MND	MNR	5,70E-04	4,75E-03	1,10E-04	-1,50E-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, PEF

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	7,48E-09	5,80E-09	4,08E-08	5,41E-08	1,11E-08	2,06E-10	MND	MND	MND	MND	MND	MND	MND	MNR	7,17E-10	3,00E-09	1,99E-10	-6,99E-08
Ionizing radiation[6)]	kBq U235e	1,88E-02	3,96E-03	3,41E+00	3,43E+00	9,73E-03	2,69E-04	MND	MND	MND	MND	MND	MND	MND	MNR	6,46E-04	2,73E-03	1,31E-04	4,33E-02
Ecotoxicity (freshwater)	CTUe	3,98E+00	6,96E-01	2,13E+01	2,60E+01	1,59E+00	9,49E-02	MND	MND	MND	MND	MND	MND	MND	MNR	1,02E-01	1,11E+00	1,98E-02	-3,56E+01
Human toxicity, cancer	CTUh	2,59E-10	1,81E-11	1,07E-09	1,35E-09	1,21E-10	4,19E-12	MND	MND	MND	MND	MND	MND	MND	MNR	3,17E-12	3,40E-11	7,68E-13	8,61E-09
Human tox. non-cancer	CTUh	2,18E-08	6,96E-10	1,23E-08	3,48E-08	1,83E-09	1,08E-10	MND	MND	MND	MND	MND	MND	MND	MNR	1,04E-10	1,52E-09	1,38E-11	-2,42E-08
SQP[7)]	-	8,29E-01	8,65E-01	2,04E+01	2,20E+01	9,58E-01	2,94E-02	MND	MND	MND	MND	MND	MND	MND	MNR	8,64E-02	4,92E-01	6,27E-02	-1,05E+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	1,27E+00	9,79E-03	5,05E+01	5,18E+01	3,60E-02	1,75E-03	MND	MND	MND	MND	MND	MND	MND	MNR	1,77E-03	4,34E-02	3,16E-04	-1,27E+00
Renew. PER as material	MJ	0,00E+00	0,00E+00	1,16E+00	1,16E+00	0,00E+00	-1,16E+00	MND	MND	MND	MND	MND	MND	MND	MNR	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Total use of renew. PER	MJ	1,27E+00	9,79E-03	5,16E+01	5,29E+01	3,60E-02	-1,16E+00	MND	MND	MND	MND	MND	MND	MND	MNR	1,77E-03	4,34E-02	3,16E-04	-1,27E+00
Non-re. PER as energy	MJ	2,82E+01	8,00E-01	5,00E+01	7,90E+01	1,65E+00	3,09E-02	MND	MND	MND	MND	MND	MND	MND	MNR	1,23E-01	2,45E-01	2,83E-02	-8,69E+00
Non-re. PER as material	MJ	0,00E+00	0,00E+00	2,34E-02	2,34E-02	0,00E+00	-4,38E-02	MND	MND	MND	MND	MND	MND	MND	MNR	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Total use of non-re. PER	MJ	2,82E+01	8,00E-01	5,00E+01	7,90E+01	1,65E+00	-1,30E-02	MND	MND	MND	MND	MND	MND	MND	MNR	1,23E-01	2,45E-01	2,83E-02	-8,69E+00
Secondary materials	kg	2,81E-02	2,31E-04	5,88E-02	8,71E-02	7,39E-04	3,75E-05	MND	MND	MND	MND	MND	MND	MND	MNR	4,14E-05	2,72E-04	7,05E-06	6,15E-01
Renew. secondary fuels	MJ	2,26E-04	2,29E-06	2,34E-02	2,36E-02	7,34E-06	2,61E-07	MND	MND	MND	MND	MND	MND	MND	MNR	4,56E-07	1,42E-05	2,16E-07	-1,58E-04
Non-ren. secondary fuels	MJ	9,63E-22	0,00E+00	5,17E-24	9,69E-22	0,00E+00	0,00E+00	MND	MND	MND	MND	MND	MND	MND	MNR	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Use of net fresh water	m^3	1,47E-02	1,04E-04	4,76E-02	6,24E-02	2,66E-04	1,44E-05	MND	MND	MND	MND	MND	MND	MND	MNR	1,55E-05	1,44E-04	3,09E-05	-1,34E-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	1,46E-02	9,80E-04	6,71E-02	8,27E-02	2,79E-03	2,78E-04	MND	MND	MND	MND	MND	MND	MND	MNR	1,38E-04	1,66E-03	0,00E+00	-3,37E-01
Non-hazardous waste	kg	3,74E-01	1,65E-02	9,03E-01	1,29E+00	5,49E-02	3,93E-02	MND	MND	MND	MND	MND	MND	MND	MNR	2,46E-03	5,31E-02	1,75E-01	-1,67E+00
Radioactive waste	kg	2,42E-04	5,42E-06	7,38E-04	9,86E-04	1,12E-05	1,42E-07	MND	MND	MND	MND	MND	MND	MND	MNR	8,50E-07	1,43E-06	0,00E+00	4,23E-06

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	MNR	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Materials for recycling	kg	0,00E+00	0,00E+00	5,93E-01	5,93E-01	0,00E+00	5,33E-02	MND	MND	MND	MND	MND	MND	MND	MNR	0,00E+00	8,25E-01	0,00E+00	0,00E+00
Materials for energy rec	kg	0,00E+00	0,00E+00	1,50E-03	1,50E-03	0,00E+00	2,07E-02	MND	MND	MND	MND	MND	MND	MND	MNR	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	2,47E-01	MND	MND	MND	MND	MND	MND	MND	MNR	0,00E+00	0,00E+00	0,00E+00	0,00E+00

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

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	2,64E+00	2,65E-02	5,57E-01	3,22E+00	1,10E-01	1,36E-02	MND	MND	MND	MND	MND	MND	MND	MNR	8,23E-03	1,78E-02	3,67E-03	-9,63E-01
Ozone depletion Pot.	kg CFC_{-11}e	1,93E-08	5,10E-09	3,48E-08	5,92E-08	1,95E-08	2,65E-10	MND	MND	MND	MND	MND	MND	MND	MNR	1,52E-09	1,80E-09	3,22E-10	-4,39E-08
Acidification	kg SO_2e	7,24E-03	7,89E-05	2,09E-03	9,40E-03	4,26E-04	1,05E-05	MND	MND	MND	MND	MND	MND	MND	MNR	2,62E-05	1,85E-04	7,47E-06	-3,41E-03
Eutrophication	kg PO_4^3e	1,09E-03	1,72E-05	1,19E-03	2,30E-03	1,07E-04	1,01E-04	MND	MND	MND	MND	MND	MND	MND	MNR	5,95E-06	6,11E-05	1,21E-04	-1,83E-03
POCP (“smog”)	kg C_2H_4e	9,75E-04	3,38E-06	1,31E-04	1,11E-03	2,95E-05	1,82E-06	MND	MND	MND	MND	MND	MND	MND	MNR	1,07E-06	7,01E-06	7,62E-07	-5,83E-04
ADP-elements	kg Sbe	2,48E-06	7,33E-08	7,90E-06	1,05E-05	1,11E-06	1,94E-08	MND	MND	MND	MND	MND	MND	MND	MNR	2,88E-08	2,43E-06	2,77E-09	-1,93E-05
ADP-fossil	MJ	1,31E+01	4,14E-01	5,02E+01	6,38E+01	1,65E+00	3,09E-02	MND	MND	MND	MND	MND	MND	MND	MNR	1,23E-01	2,45E-01	2,83E-02	-8,73E+00

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.

Imane Uald lamkaddam, as an authorized verifier acting for EPD Hub Limited
15.05.2024

VERIFIED ISO 14025

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

Article Number	*Product Description*	*WxDxH [mm]*	*Product Weight [Kg]*	*GWP-total A1-A3 [Kg CO2-e/item]*
410510	Bracket click-in D: 50 white	13x500x73	0,49	1,46
411325	Bracket Click-in 32 cm Graphite	13x320x55	0,23	0,69
4100097	Bracket D: 30 Matte grey	13x333x55	0,23	0,69
4100098	Bracket D: 40 Matte grey	13x434x52	0,30	0,90
414210	Bracket click-in D: 40 White	12x420x52	0,30	0,90
414225	Bracket Click-in D: 40 Graphite	12x420x52	0,30	0,90
411350	Bracket D:30 Mattewhite	13x333x55	0,22	0,65
411450	Bracket D:40 Mattewhite	13x434x52	0,27	0,82
4100099	Bracket D: 52 Matte grey	13x534x54	0,46	1,38
412210	Bracket for solid shelf D: 22 white	13x220x49	0,15	0,45
412225	Bracket for solid shelf D: 22 Graphite	13x220x49	0,15	0,45
412710	Bracket for solid shelf D: 27 white	13x270x49	0,20	0,59
412728	Bracket for solid shelf D: 27 Graphite	13x270x49	0,20	0,59
413210	Bracket for solid shelf D: 30 white	13x320x55	0,24	0,72
413715	Bracket for solid shelf with slot D: 37 white	13x370x61	0,30	0,89
413728	Bracket for solid shelf D: 37 Graphite	13x370x61	0,30	0,89
414710	Bracket for solid shelf D: 47 white	13x470x73	0,44	1,30
414729	Bracket for solid shelf D: 47 Graphite	13x470x73	0,44	1,30
412725	Traditional Bracket	14x270x50	0,19	0,56
411725	Traditional Bracket	14x170x50	0,10	0,29
413725	Traditional Bracket	14x 370x61	0,29	0,87
414248	Bracket Click-in	12x420x52	0,30	0,90
414218	Bracket Click-in	12x420x52	0,30	0,90
420210	Top track W: 641 mm White	641x8x36	0,35	1,03
420225	Top track W: 641 mm Graphite	641x8x36	0,35	1,03

420310	Top track W: 936 mm White	936x8x36	0,50	1,50
420325	Top track W: 936 mm Graphite	936x8x36	0,50	1,50
420710	Top track W: 1248 mm White	1248x8x36	0,67	2,01
420725	Top track W: 1248 mm Graphite	1248x8x36	0,67	2,01
423510	Top track W: 1253 mm White	1253x8x36	0,77	2,30
423610	Top track W: 1862 mm White	1862x8x36	1,14	3,39
4200115	Top track 1248 mm Matte white	1248x8x36	0,67	2,01
4200116	Top track 1248 mm Matte grey	1248x8x36	0,67	2,01
4200117	Top track 1855 mm Matte white	1855x8x36	1,00	2,98
4200118	Top track 1855 mm Matte grey	1855x8x36	1,00	2,98
4200121	Top Track 657 mm Matte grey	657x8x36	0,35	1,06
440250	Top track 932 mm Matt white	932x8x36	0,49	1,47
440251	Top track 932 mm Matte grey	932x8x36	0,49	1,47
440350	Top track 1264 mm Matte white	1264x8x36	0,80	2,39
440351	Top track 1264 mm Matte grey	1264x8x36	0,80	2,39
440450	Top track 1855 mm Matt white	1855x8x36	0,98	2,98
440451	Top track 1855 mm Matte grey	1855x8x36	0,98	2,98
441450	Top track 2166 mm Matt white	2166x8x36	1,14	3,40
4200118	Top track 1855 mm Matte grey	1855x8x36	1,00	2,98
441451	Top track 2166 mm Mattegrey	2166x8x36	1,17	3,50
421025	Top Track 2150 mm Graphite	2150x8x36	1,16	3,47
720110	Track White	620x6x25	0,23	0,69
720120	Track Grey	620x6x25	0,23	0,69
720130	Track Light brown	620x6x25	0,23	0,69
720140	Track Dark brown	620x6x25	0,23	0,69
720210	Track White	820x6x25	0,31	0,93
720220	Track Grey	820x6x25	0,31	0,93
720230	Track Light brown	820x6x25	0,31	0,93
720240	Track Dark brown	820x6x25	0,31	0,93
720310	Track White	1820x6x25	0,72	2,15

720320	Track Grey	1820x6x25	0,72	2,15
720330	Track Light brown	1820x6x25	0,72	2,15
720340	Track Dark brown	1820x6x25	0,72	2,15
720410	Track White	2420x6x25	0,91	2,72
720420	Track Grey	2420x6x25	0,91	2,72
720430	Track Light brown	2420x6x25	0,91	2,72
720440	Track Dark brown	2420x6x25	0,91	2,72
427525	Hang standard H: 988 mm Graphite	25x23x988	0,87	2,60
427610	Hang standard H: 1532 mm white	25x23x1532	1,35	4,03
427625	Hang standard H: 1532 mm Graphite	25x23x1532	1,35	4,03
427710	Hang standard H: 2140 mm white	25x23x2140	1,88	5,62
427725	Hang standard H: 2140 mm Graphite	25x23x2140	1,88	5,62
427810	Hang standard H: 2300 mm White	25x23x2300	2,02	6,05
427825	Hang standard H: 2300 mm Graphite	25x23x2300	2,02	6,05
440551	Standard 1020 mm Matte grey	25x27x1020	1,23	3,66
440651	Standard 1532 mm Matte grey	25x27x1532	1,84	5,50
4200129	Standard 2172 mm Matte grey	25x27x2172	2,61	7,80
441550	Standard 2172mm Matte white	25X27X2172	2,61	7,80
440550	Standard 1020mm Matte white	25X27X1020	1,23	3,66
440650	Standard 1532mm Matte white	25X27X1532	1,84	5,50
427310	Hang Standard 2588 mm White	25x25x2588	2,50	7,48
427325	Hang Standard 2588 mm Graphite	25x25x2588	2,50	7,48
427380	Hang Standard 2588 mm Plat	25x25x2588	2,50	7,48
427910	Extension Hang standard H: 1148 mm White	25x23x1148	1,01	3,02
427925	Extension Hang standard H: 1148 mm Graphite	25x23x1148	1,01	3,02
441051	Extension standard adapter Matte grey/white	25x23x1148	0,13	0,39
441051	Extension standard adapter Matte grey/white	25x25x160	0,13	0,39
440950	Extension Standard 1148 mm Matte white	25X27X1148	1,38	4,11
400310	Wallband H: 32 White	25x16x316	0,22	0,65
400410	Wallband H: 70 White	25x16x700	0,48	1,44

400425	Wallband H: 70 Graphite	25x16x700	0,48	1,44
400510	Wallband H: 134 White	25x16x1340	0,93	2,78
400525	Wallband H: 134 Graphite	25x16x1340	0,93	2,78
400810	Wallband H: 198 White	25x16x1980	1,37	4,10
400880	Wallband H: 198 platinum	25X16X1980	1,37	4,10
400825	Wallband H: 198 Graphite	25x16x1980	1,37	4,10
402410	Wallband H: 240 white	25x16x2396	1,63	4,86
402025	77-3/4" Mounted Standard	17x26x1980	1,30	3,89
401318	Extension Wallband 988mm White	25x16x988	0,69	2,06
721610	Upright White	18x24x2376	2,10	6,27
721620	Upright Grey	18x24x2376	2,10	6,27
721630	Upright Light brown	18x24x2376	2,10	6,27
721640	Upright Dark brown	18x24x2376	2,10	6,27