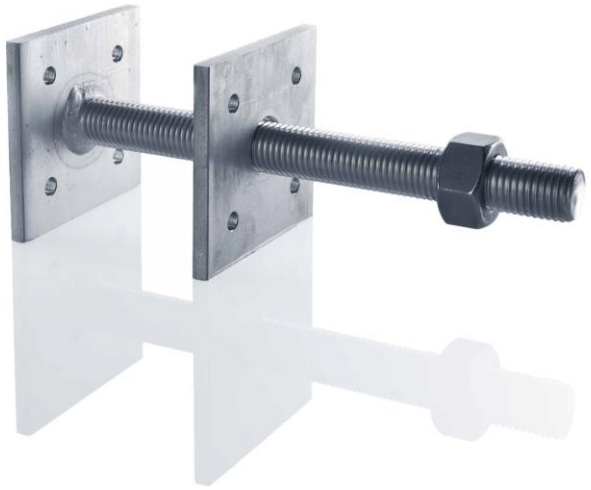
ENVIRONMENTAL PRODUCT DECLARATION

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

Adjustment leg austenitic stainless steel
MiTek Finland Oy



EPD HUB, HUB-3344
Published on 23.05.2025, last updated on 23.05.2025, valid until 22.05.2030

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	MiTek Finland Oy
Address	Voittajankaari 2, Karstula 43500, Finland
Contact details	mitek.fi@mii.com
Website	www.mitek.fi

EPD STANDARDS, SCOPE AND VERIFICATION

Program operator	EPD Hub, hub@epdhub.com
Reference standard	EN 15804+A2:2019 and ISO 14025
PCR	EPD Hub Core PCR Version 1.1, 5 Dec 2023
Sector	Construction product
Category of EPD	Third party verified EPD
Scope of the EPD	Cradle to gate with options, A4-A5, and modules C1-C4, D
EPD author	Ville Lindén MiTek Finland Oy
EPD verification	Independent verification of this EPD and data, according to ISO 14025: ☐ Internal verification ☑ External verification
EPD verifier	Sarah Curpen, as 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	Adjustment leg austenitic stainless steel
Additional labels	-
Product reference	401402, 401403, 401404
Place of production	Finland Karstula
Period for data	1/1/2022-31/12/2022
Averaging in EPD	Multiple products
Variation in GWP-fossil for A1-A3 (%)	<5%
GTIN (Global Trade Item Number)	-
NOBB (Norwegian Building Product Database)	-

ENVIRONMENTAL DATA SUMMARY

Declared unit	1 kg
Declared unit mass	1 kg
GWP-fossil, A1-A3 ($kgCO_2e$)	8,35E+00
GWP-total, A1-A3 ($kgCO_2e$)	7,64E+00
Secondary material, inputs (%)	70
Secondary material, outputs (%)	87,7
Total energy use, A1-A3 (kWh)	35,2
Net freshwater use, A1-A3 (m^3)	0,08

PRODUCT AND MANUFACTURER

ABOUT THE MANUFACTURER

MiTek Finlands main products are nailplates and Posi-struts for truss manufacturers, builder products and truss design programs and services.

PRODUCT DESCRIPTION

A builder product that is used to transfer upwards loads while being able to be height adjusted. Connected to the building by bolts and/or screws depending on the contact surface and material. Product is made out of austenitic stainless steel.

EPD consist multiple product sizes where the individual parts of the product differs in size. Threaded rod and steel nut size varies from M20 to M30. All of the products included in EPD have same material, manufacturing process and the finishing.

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

PRODUCT RAW MATERIAL MAIN COMPOSITION

Raw material category	Amount, mass %	Material origin
Metals	100	EU, Asia
Minerals	-	-
Fossil materials	-	-
Bio-based materials	-	-

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	0,196

FUNCTIONAL UNIT AND SERVICE LIFE

Declared unit	1 kg
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 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 manufacturing process for austenitic stainless steel adjustment legs commences with the purchase of the steel parts used in the products. Steel plates are purchased as pre fabricated to size from supplier from Finland and threaded rod and nut is purchased from a manufacturer in India.

Pre-purchased externally sourced steel parts are storaged in the designated welding facility. Welding is done with Mig welding machine. The assembled product is send to a subcontractor for a acidificationt process. Finished product is send to warehouse and shelved to wait an purchase order.

As an order for the product comes in from customer, order content is counted and packed in a wooden pallet and wrapped in plastic wrapping. In the warehouse forklifts are used for heavy loads.

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.

A4

Manufacturer uses Posti for transporting the finished product to customer. Average transport distance from the warehouse to customer is calculated from transporter data. Average distance is calculated from all the shipments from the year the data was collected. Each distance is weighted with the weight of the shipment. Average distance used in in this EPD is 378km. Transport method assumed to be used is lorry 16-32m, EURO5.

A5

Product is installed to the building with screws or anchors. For this scenario it is assumed that connectors are purchased by the customer at the same time as the

product and delivered with the product. For this calculations it is assumed that screws are manufactured in Taiwan.

No waste is produced from the product itself during installation. Packaging material goes to waste treatment.

Electricity consumption of power tools has been included in the calculation.

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)

C1-Deconstruction:
The product is removed from the construction by powertool.

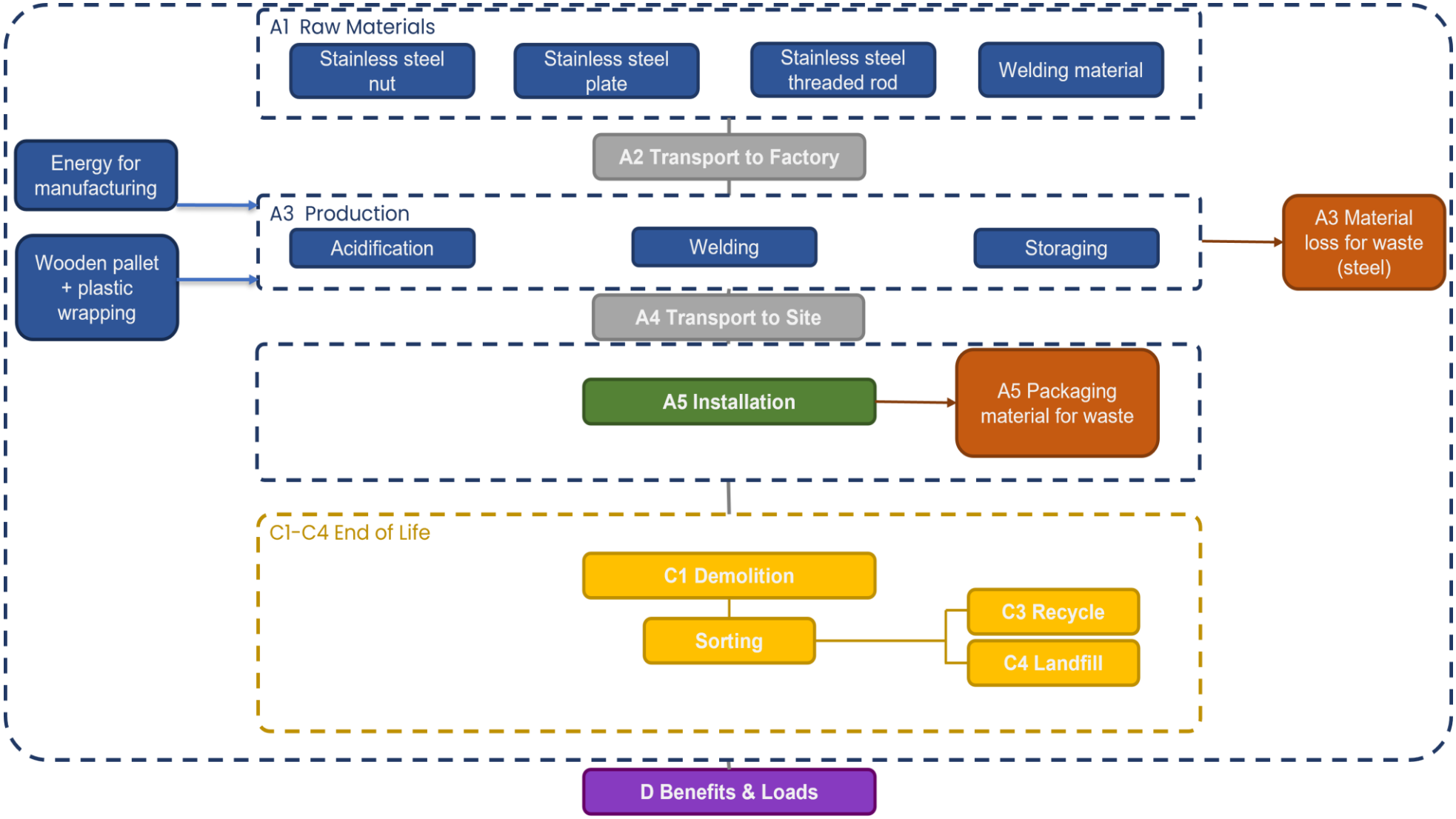
C2-Transport to waste processing facility or landfill:
No data is available for the average distance from demolition site to recycling centre and since every journey will be different. A distance and mode of 50km of truck has been modelled. This will allow endusers of the EPD to calculate their own bespoke impacts for the module C2 based on the predicted route and distance their disassembled product will take.

C3-Waste processing:
It is assumed that 95% of the steel per declared unit will go to recycling and 5% to landfill according to the Finnish default metal recovery rates listed in CO2data Stainless steel rebar Version 1.01.003, 2024-09-17. The impacts associated with recycling are covered in this module.

C4-Disposal:
This scenario assumes that 5% of the product per declared unit will be un-recyclable and transported to landfill, in accordance CO2data Stainless steel rebar Version 1.01.003, 2024-09-17.

D-Re-use, recovery and/or recycling potential:
This scenario assumes that 95% of the product per declared unit will be recyclable according to CO2data Stainless steel rebar Version 1.01.003, 2024-09-17. No data is available for the pre-existing recycled content in the product.

MANUFACTURING PROCESS



LIFE-CYCLE ASSESSMENT

CUT-OFF CRITERIA

The study does not exclude any modules or processes which are stated mandatory in the reference standard and the applied PCR. The study does not exclude any hazardous materials or substances. The study includes all major raw material and energy consumption. All inputs and outputs of the unit processes, for which data is available for, are included in the calculation. There is no neglected unit process more than 1% of total mass or energy flows. The module specific total neglected input and output flows also do not exceed 5% of energy usage or mass.

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. 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	No allocation
Ancillary materials	Not applicable
Manufacturing energy and waste	Allocated by mass or volume

AVERAGES AND VARIABILITY

Type of average	Multiple products
Averaging method	Representative product
Variation in GWP-fossil for A1-A3 (%)	<5%

EPD averages multiple product sizes. Product size varies from 1,5kg to 4,0kg. The representative product is the most sold product in kg and also represents the maximum of GWP fossil. This is compared to products that represent the minimum of GWP fossil.

All of the products are assembled in the same location and with similar materials.
Representative product 401404 represents also the maximum in GWP Fossils. Difference on minimum 401402 is due to composition of the product. Amount of different steel parts varies on different sizes of product.

LCA SOFTWARE AND BIBLIOGRAPHY

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

ENVIRONMENTAL IMPACT DATA

CORE ENVIRONMENTAL IMPACT INDICATORS – EN 15804+A2, 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	7,71E+00	3,35E-01	-4,10E-01	7,64E+00	1,13E-01	1,38E+00	MND	MND	MND	MND	MND	MND	MND	1,45E-03	1,04E-02	2,24E-02	3,37E-04	-1,86E+00
GWP – fossil	kg CO_2e	7,70E+00	3,35E-01	3,07E-01	8,35E+00	1,13E-01	6,60E-01	MND	MND	MND	MND	MND	MND	MND	1,42E-03	1,04E-02	2,24E-02	3,37E-04	-1,92E+00
GWP – biogenic	kg CO_2e	0,00E+00	0,00E+00	-7,18E-01	-7,18E-01	0,00E+00	7,18E-01	MND	MND	MND	MND	MND	MND	MND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	6,01E-02
GWP – LULUC	kg CO_2e	8,06E-03	1,30E-04	1,34E-03	9,53E-03	3,99E-05	6,32E-04	MND	MND	MND	MND	MND	MND	MND	2,87E-05	3,69E-06	1,85E-05	1,93E-07	-3,65E-04
Ozone depletion pot.	kg CFC_{-11}e	7,06E-08	6,32E-09	8,03E-09	8,50E-08	2,25E-09	6,17E-09	MND	MND	MND	MND	MND	MND	MND	2,71E-11	2,08E-10	1,51E-10	9,76E-12	-8,87E-09
Acidification potential	mol H^+e	3,99E-02	2,70E-03	1,42E-03	4,40E-02	3,53E-04	3,59E-03	MND	MND	MND	MND	MND	MND	MND	5,24E-06	3,27E-05	9,91E-05	2,39E-06	-7,76E-03
EP-freshwater[2)]	kg Pe	1,51E-02	2,00E-05	8,96E-05	1,52E-02	7,48E-06	2,05E-04	MND	MND	MND	MND	MND	MND	MND	3,85E-07	6,92E-07	8,77E-06	2,77E-08	-8,28E-04
EP-marine	kg Ne	7,51E-03	7,48E-04	3,66E-04	8,62E-03	1,19E-04	7,89E-04	MND	MND	MND	MND	MND	MND	MND	1,20E-06	1,10E-05	4,68E-05	9,11E-07	-1,68E-03
EP-terrestrial	mol Ne	7,77E-02	8,24E-03	4,07E-03	9,00E-02	1,29E-03	7,50E-03	MND	MND	MND	MND	MND	MND	MND	1,25E-05	1,20E-04	2,61E-04	9,95E-06	-1,83E-02
POCP ("smog")[3)]	kg NMVOCe	2,50E-02	2,72E-03	1,88E-03	2,97E-02	5,53E-04	2,36E-03	MND	MND	MND	MND	MND	MND	MND	3,73E-06	5,12E-05	7,76E-05	3,56E-06	-6,37E-03
ADP-minerals & metals[4)]	kg Sbe	2,01E-04	9,52E-07	1,86E-06	2,04E-04	3,69E-07	1,30E-05	MND	MND	MND	MND	MND	MND	MND	7,71E-09	3,42E-08	4,04E-07	5,36E-10	-1,78E-05
ADP-fossil resources	MJ	9,18E+01	4,60E+00	7,38E+00	1,04E+02	1,59E+00	7,47E+00	MND	MND	MND	MND	MND	MND	MND	6,48E-02	1,47E-01	1,67E-01	8,27E-03	-1,90E+01
Water use[5)]	m^3e depr.	2,53E+00	2,09E-02	2,00E-01	2,75E+00	7,79E-03	1,81E-01	MND	MND	MND	MND	MND	MND	MND	1,77E-03	7,20E-04	5,25E-03	2,39E-05	-3,37E-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	5,59E-07	2,33E-08	1,97E-08	6,02E-07	8,87E-09	4,47E-08	MND	MND	MND	MND	MND	MND	MND	4,35E-11	8,21E-10	1,77E-09	5,44E-11	-1,24E-07
Ionizing radiation[6]	kBq U235e	6,77E-01	5,23E-03	1,05E-01	7,88E-01	2,02E-03	6,18E-02	MND	MND	MND	MND	MND	MND	MND	3,73E-03	1,87E-04	2,40E-03	5,20E-06	3,76E-02
Ecotoxicity (freshwater)	CTUe	3,52E+01	5,59E-01	1,55E+00	3,73E+01	2,08E-01	1,92E+00	MND	MND	MND	MND	MND	MND	MND	4,32E-03	1,93E-02	2,79E-01	6,94E-04	-4,64E+00
Human toxicity, cancer	CTUh	9,54E-09	5,98E-11	7,35E-10	1,03E-08	1,92E-11	7,23E-10	MND	MND	MND	MND	MND	MND	MND	3,98E-13	1,78E-12	2,56E-11	6,22E-14	-3,13E-10
Human tox. non-cancer	CTUh	1,45E-07	2,59E-09	3,07E-09	1,51E-07	9,95E-10	1,16E-08	MND	MND	MND	MND	MND	MND	MND	1,51E-11	9,21E-11	6,36E-10	1,43E-12	-1,52E-08
SQP[7]	-	4,04E+01	2,34E+00	6,01E+01	1,03E+02	9,43E-01	3,53E+00	MND	MND	MND	MND	MND	MND	MND	2,08E-02	8,73E-02	8,73E-01	1,63E-02	-5,78E+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	1,96E+01	7,20E-02	5,37E+00	2,51E+01	2,74E-02	-5,75E+00	MND	MND	MND	MND	MND	MND	MND	2,31E-02	2,54E-03	3,16E-02	7,99E-05	1,55E-01
Renew. PER as material	MJ	0,00E+00	0,00E+00	6,29E+00	6,29E+00	0,00E+00	-6,29E+00	MND	MND	MND	MND	MND	MND	MND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	4,14E-01
Total use of renew. PER	MJ	1,96E+01	7,20E-02	1,17E+01	3,14E+01	2,74E-02	-1,20E+01	MND	MND	MND	MND	MND	MND	MND	2,31E-02	2,54E-03	3,16E-02	7,99E-05	5,69E-01
Non-re. PER as energy	MJ	9,18E+01	4,60E+00	5,10E+00	1,02E+02	1,59E+00	5,69E+00	MND	MND	MND	MND	MND	MND	MND	6,48E-02	1,47E-01	1,67E-01	8,27E-03	-1,90E+01
Non-re. PER as material	MJ	0,00E+00	0,00E+00	2,28E+00	2,28E+00	0,00E+00	-2,28E+00	MND	MND	MND	MND	MND	MND	MND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	8,80E-01
Total use of non-re. PER	MJ	9,18E+01	4,60E+00	7,38E+00	1,04E+02	1,59E+00	3,40E+00	MND	MND	MND	MND	MND	MND	MND	6,48E-02	1,47E-01	1,67E-01	8,27E-03	-1,81E+01
Secondary materials	kg	7,00E-01	2,12E-03	2,47E-02	7,27E-01	7,26E-04	5,62E-02	MND	MND	MND	MND	MND	MND	MND	6,81E-06	6,72E-05	3,20E-04	2,08E-06	1,01E+00
Renew. secondary fuels	MJ	2,56E-03	2,29E-05	2,14E-01	2,16E-01	9,17E-06	2,11E-04	MND	MND	MND	MND	MND	MND	MND	2,30E-08	8,48E-07	2,49E-05	4,31E-08	-1,51E-04
Non-ren. secondary fuels	MJ	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
Use of net fresh water	m^3	7,36E-02	5,67E-04	5,07E-03	7,92E-02	2,13E-04	4,63E-03	MND	MND	MND	MND	MND	MND	MND	5,62E-05	1,97E-05	8,50E-05	8,60E-06	-5,28E-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	6,22E+00	6,51E-03	1,98E-02	6,24E+00	2,27E-03	4,96E-01	MND	MND	MND	MND	MND	MND	MND	8,80E-05	2,10E-04	2,37E-03	9,14E-06	-6,00E-01
Non-hazardous waste	kg	2,60E+01	1,30E-01	1,25E+00	2,74E+01	4,80E-02	3,29E+00	MND	MND	MND	MND	MND	MND	MND	2,05E-03	4,44E-03	1,34E-01	2,09E-04	-5,25E+00
Radioactive waste	kg	1,75E-04	1,30E-06	2,37E-05	2,00E-04	5,02E-07	1,57E-05	MND	MND	MND	MND	MND	MND	MND	8,02E-07	4,65E-08	6,15E-07	1,27E-09	9,88E-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	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Materials for recycling	kg	0,00E+00	0,00E+00	3,70E-02	3,70E-02	0,00E+00	1,78E-01	MND	MND	MND	MND	MND	MND	MND	0,00E+00	0,00E+00	1,03E+00	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	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
Exported energy	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,06E+00	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	4,50E-01	MND	MND	MND	MND	MND	MND	MND	0,00E+00	0,00E+00	0,00E+00	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	6,10E-01	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 / 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	7,72E+00	3,33E-01	3,07E-01	8,36E+00	1,12E-01	6,72E-01	MND	MND	MND	MND	MND	MND	MND	1,45E-03	1,04E-02	3,59E-02	3,34E-04	-1,91E+00
Ozone depletion Pot.	kg $CFC_{-11}e$	5,93E-08	5,03E-09	6,71E-09	7,10E-08	1,79E-09	5,12E-09	MND	MND	MND	MND	MND	MND	MND	2,39E-11	1,65E-10	1,25E-10	7,75E-12	-8,96E-09
Acidification	kg SO_2e	3,30E-02	2,12E-03	1,11E-03	3,63E-02	2,68E-04	2,96E-03	MND	MND	MND	MND	MND	MND	MND	4,19E-06	2,48E-05	7,81E-05	1,77E-06	-6,27E-03
Eutrophication	kg PO_4^3e	4,91E-03	3,27E-04	7,24E-03	1,25E-02	6,82E-05	4,44E-04	MND	MND	MND	MND	MND	MND	MND	7,07E-07	6,31E-06	3,28E-05	5,62E-07	-1,16E-03
POCP (“smog”)	kg C_2H_4e	2,07E-03	1,35E-04	1,80E-04	2,38E-03	2,56E-05	1,83E-04	MND	MND	MND	MND	MND	MND	MND	2,90E-07	2,37E-06	9,47E-06	1,67E-07	-9,43E-04
ADP-elements	kg Sbe	2,01E-04	9,31E-07	1,83E-06	2,04E-04	3,61E-07	1,30E-05	MND	MND	MND	MND	MND	MND	MND	7,77E-09	3,34E-08	4,01E-07	5,25E-10	-1,78E-05
ADP-fossil	MJ	7,99E+01	4,51E+00	5,81E+00	9,02E+01	1,55E+00	6,43E+00	MND	MND	MND	MND	MND	MND	MND	1,21E-02	1,44E-01	1,25E-01	8,19E-03	-1,97E+01

ENVIRONMENTAL IMPACTS – GWP-GHG - THE INTERNATIONAL EPD SYSTEM

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
GWP-GHG[9)]	kg CO_2e	7,71E+00	3,35E-01	3,08E-01	8,36E+00	1,13E-01	6,61E-01	MND	MND	MND	MND	MND	MND	MND	1,45E-03	1,04E-02	2,24E-02	3,37E-04	-1,92E+00

9) This indicator includes all greenhouse gases excluding biogenic carbon dioxide uptake and emissions and biogenic carbon stored in the product as defined by IPCC AR 5 (IPCC 2013). In addition, the characterisation factors for the flows - CH4 fossil, CH4 biogenic and Dinitrogen monoxide - were updated in line with the guidance of IES PCR 1.2.5 Annex 1. This indicator is identical to the GWP-total of EN 15804:2012+A2:2019 except that the characterization factor for biogenic CO2 is set to zero.

VERIFICATION STATEMENT

VERIFICATION PROCESS FOR THIS EPD

This EPD has been verified in accordance with ISO 14025 by an independent, third-party verifier by reviewing results, documents and compliancy with reference standard, ISO 14025 and ISO 14040/14044, following the process and checklists of the program operator for:

- This Environmental Product Declaration
- The Life-Cycle Assessment used in this EPD
- The digital background data for this EPD

Why does verification transparency matter? Read more online
This EPD has been generated by One Click LCA EPD generator, which has been verified and approved by the EPD Hub.

THIRD-PARTY VERIFICATION STATEMENT

I hereby confirm that, following detailed examination, I have not established any relevant deviations by the studied Environmental Product Declaration (EPD), its LCA and project report, in terms of the data collected and used in the LCA calculations, the way the LCA-based calculations have been carried out, the presentation of environmental data in the EPD, and other additional environmental information, as present with respect to the procedural and methodological requirements in ISO 14025:2010 and reference standard.

I confirm that the company-specific data has been examined as regards plausibility and consistency; the declaration owner is responsible for its factual integrity and legal compliance.

I confirm that I have sufficient knowledge and experience of construction products, this specific product category, the construction industry, relevant standards, and the geographical area of the EPD to carry out this verification.

I confirm my independence in my role as verifier; I have not been involved in the execution of the LCA or in the development of the declaration and have no conflicts of interest regarding this verification.

Sarah Curpen, as an authorized verifier acting for EPD Hub Limited.
23.05.2025