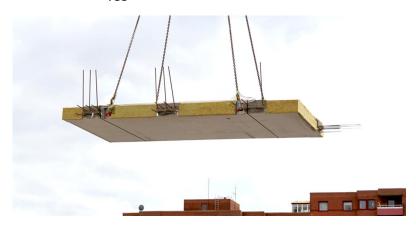




ENVIRONMENTAL PRODUCT DECLARATION

IN ACCORDANCE WITH EN 15804+A2 & ISO 14025

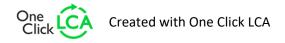
Balkong Bjästa Skandinaviska Byggelement AB



EPD HUB, HUB-3816

Published on 14.08.2025, last updated on 14.08.2025, valid until 14.08.2030

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.









GENERAL INFORMATION

MANUFACTURER

IVIAINUFACTURER	
Manufacturer	Skandinaviska Byggelement AB
Address	Sidensjövägen 3, 89331 Bjästa, Sweden
Contact details	info@byggelement.se
Website	https://byggelement.se
EPD STANDARDS, SCOP	E 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
Parent EPD number	-
Scope of the EPD	Cradle to gate with options, A4, and modules C1-C4, D
EPD author	Jörgen Danielsson
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 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.

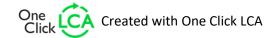
PRODUCT

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Product name	Balkong Bjästa
Additional labels	-
Product reference	121000
Place(s) of raw material origin	Sweden
Place of production	Bjästa, Sweden
Place(s) of installation and use	Scandinavia
Period for data	1/1/2023 - 31/12/2023
Averaging in EPD	No grouping
Variation in GWP-fossil for A1-A3 (%)	-
A1-A3 Specific data (%)	89,5

ENVIRONMENTAL DATA SUMMARY

Declared unit	1 ton
Declared unit mass	1000 kg
GWP-fossil, A1-A3 (kgCO₂e)	1,58E+02
GWP-total, A1-A3 (kgCO₂e)	1,58E+02
Secondary material, inputs (%)	11,3
Secondary material, outputs (%)	79,8
Total energy use, A1-A3 (kWh)	632
Net freshwater use, A1-A3 (m³)	1,7







PRODUCT AND MANUFACTURER

ABOUT THE MANUFACTURER

Byggelement (Skandinaviska Byggelement AB) was created as a company 2002 and is a part of the Peab Group. Byggelement is one of Sweden's leading suppliers of complete structural systems in concrete and prefabricated concrete elements. We produce and deliver project-adapted frames and elements directly to the construction site, ready for assembly. Byggelement manufactures and supplies frame systems and concrete elements for multidwelling buildings, office, hotel, industrial buildings, business premises and healthcare and school.

PRODUCT DESCRIPTION

A balcony slab is a cast element used for houses and apartments. For a lighter weight slab EPS can also be added.

The balcony slab is molded with a smooth surface and a finely rolled non-slip top surface. Balcony slabs come in different thicknesses.

Further information can be found at: https://byggelement.se

PRODUCT RAW MATERIAL MAIN COMPOSITION

Raw material category	Amount, mass %	Material origin
Metals	5,5	EU
Minerals	94,5	EU
Fossil materials	0,0	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
Biogenic carbon content in packaging, kg C	0

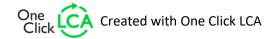
FUNCTIONAL UNIT AND SERVICE LIFE

Declared unit	1 ton
Mass per declared unit	1000 kg
Functional unit	-
Reference service life	-

SUBSTANCES, REACH - VERY HIGH CONCERN

3

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.

Pro	duct s	tage		mbly ige			U	se sta	ge			Ei	nd of I	ife sta	ge		the 1 ies	
A1	A2	А3	A4	A5	B1	B2	В3	В4	В5	В6	В7	C1	C2	С3	C4		D	
×	×	×	×	MND	MN	N N	MN	MN	MND	MND	MND	×	×	×	×			
Raw materials	Transport	Manufacturing	Transport	Assembly	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	Deconstruction/ demolition	Transport	Waste processing	Disposal	Reuse	Recovery	Recycling

Modules not declared = MND. Modules not relevant = MNR

MANUFACTURING AND PACKAGING (A1-A3)

The environmental impacts considered for the product stage cover the manufacturing of raw materials used in the production as well as packaging materials and other ancillary materials. Also, fuels used by machines, and handling of waste formed in the production processes at the manufacturing facilities are included in this stage. The study also considers the material losses occurring during the manufacturing processes as well as losses during electricity transmission.

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

A balcony slab is a cast element used for houses and apartments. For a lighter weight slab EPS can also be added. The balcony slab is molded with a smooth surface and a finely rolled non-slip top surface. Balcony slabs come in different thicknesses.

The elements are manufactured in the factory by mixing the raw materials for the concrete. The wet mass is filled into molds, prepared with reinforcement steel and embedded goods. The products are then left to cure under controlled conditions to later be transported for storage or to construction site.

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)

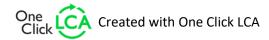
Transportation impacts occurred from final products delivery to construction site (A4) cover fuel direct exhaust emissions, environmental impacts of fuel production, as well as related infrastructure emissions.

The transportation distance is defined according to the PCR. Average distance of transportation from production plant to building site is in average 556 km and the transportation method is assumed to be lorry. Vehicle capacity utilization is assumed to be 100 % which means full load. In reality, it may vary but as role of transportation emissions in total results is small, the variety in load is assumed to be negligible. Empty returns are not taken into account as it is assumed that return trip is used by the transportation company to serve the needs of other clients.

PRODUCT USE AND MAINTENANCE (B1-B7)

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4







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

PRODUCT END OF LIFE (C1-C4, D)

At the end-of-life, in the demolition phase 100% of the waste is assumed to be collected as separate construction waste. The demolition process consumes energy in the form of diesel fuel used by building machines. Energy consumption of a demolition process is on the average 10 kWh/m2 (Bozdağ, Ö & Seçer, M. 2007).

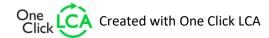
Basing on a Level(s) project, an average mass of a reinforced concrete building is about 416 kg/m2. Therefore, energy consumption demolition is assumed to be 10 kWh/1000 kg = 0,01 kWh/kg. The source of energy is diesel fuel used by work machines (C1). The dismantled concrete blocks and reinforcement steel are delivered to the nearest construction waste treatment plant. It is estimated that there is no mass loss during the use of the product, therefore the end-of-life product is assumed that it has the same weight with the declared product.

Transportation distance to the closest disposal area is estimated as 100 km and the transportation method is lorry which is the most common.

At the waste treatment plant, waste that can be reused, recycled or recovered for energy is separated and diverted for further use. It can be assumed that 100% of the concrete blocks are transported to a waste treatment plant, where the blocks are crushed and separated. About 95% of steel (World Steel Association. 2020) and 80% of concrete (Betoniteollisuus ry, 2020) are recycled. The process losses of the waste treatment plant are assumed to be negligible (C3). The remaining 20% of concrete, 5% of steel and 100% of plastic (<0,2kg) are assumed to be sent to the landfill (C4).

Due to the recycling potential of concrete, they can be crushed and used as secondary raw material, which avoids the use of virgin raw materials.

The 80 % of concrete going to waste processing is converted into secondary raw materials after recycling. The recycled material content in the concrete itself is assumed to be 0 % but in steel is assumed to be 95% (D).



Balkong Bjästa

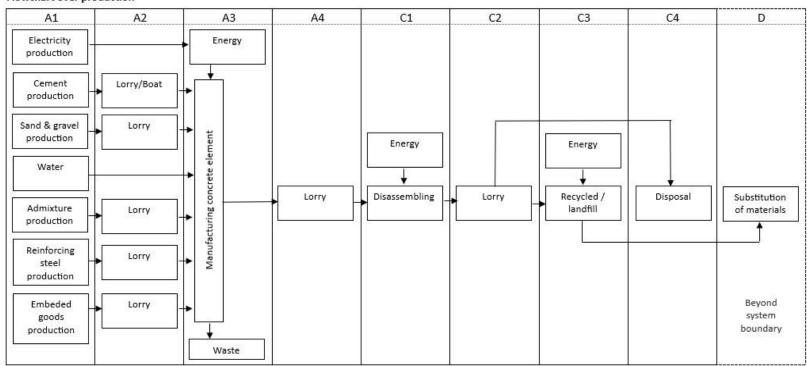
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MANUFACTURING PROCESS

Flowchart over production



Modul A1: Manufacturing materials

Modul A2: Transport of manufactured materials to Byggelement.

Modul A3: Manufacturing.

Modul A4: Transport to building site.

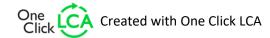
Modul C1: Disassembling, demolition.

Modul C2: Transport of waste from the demolition site to waste processing and disposal.

Modul C3: Waste processing.

Modul C4: Waste disposal.

Modul D: Benefits and loads beyond the 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 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.

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/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:

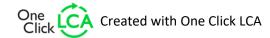
Data type	Allocation
Raw materials	No allocation
Packaging material	Not applicable
Ancillary materials	Allocated by mass or volume
Manufacturing energy and waste	Allocated by mass or volume

PRODUCT & MANUFACTURING SITES GROUPING

Type of grouping	No grouping
Grouping method	Not applicable
Variation in GWP-fossil for A1-A3, %	-

This EPD is product and factory specific.

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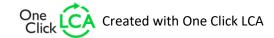






LCA SOFTWARE AND BIBLIOGRAPHY

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, Cutoff, EN 15804+A2'.



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ENVIRONMENTAL IMPACT DATA

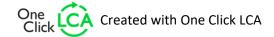
The estimated impact results are only relative statements which do not indicate the end points of the impact categories, exceeding threshold values, safety margins or risks.

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

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	В3	B4	B5	В6	В7	C1	C2	С3	C4	D
GWP – total ¹⁾	kg CO₂e	1,43E+02	6,89E+00	7,73E+00	1,58E+02	5,99E+01	MND	3,61E+00	1,06E+01	1,15E+01	1,48E+00	-8,26E+00							
GWP – fossil	kg CO₂e	1,44E+02	6,89E+00	7,52E+00	1,58E+02	5,98E+01	MND	3,60E+00	1,06E+01	1,15E+01	1,48E+00	-8,24E+00							
GWP – biogenic	kg CO₂e	-9,55E-01	1,55E-03	4,48E-02	-9,09E-01	1,36E-02	MND	3,68E-04	2,41E-03	-7,81E-03	-3,79E-04	-5,91E-03							
GWP – LULUC	kg CO₂e	1,90E-01	3,03E-03	1,72E-01	3,65E-01	2,68E-02	MND	3,69E-04	4,76E-03	6,33E-03	6,82E-04	-6,48E-03							
Ozone depletion pot.	kg CFC-11e	1,97E-06	1,05E-07	3,81E-07	2,46E-06	8,83E-07	MND	5,52E-08	1,57E-07	2,15E-07	3,46E-08	-6,19E-08							
Acidification potential	mol H⁺e	1,39E+01	2,34E-02	1,11E-01	1,40E+01	2,04E-01	MND	3,25E-02	3,63E-02	9,17E-02	8,47E-03	-4,82E-02							
EP-freshwater ²⁾	kg Pe	1,55E-02	5,29E-04	1,27E-03	1,73E-02	4,66E-03	MND	1,04E-04	8,29E-04	4,10E-03	1,16E-04	-2,70E-03							
EP-marine	kg Ne	5,75E-02	7,70E-03	3,86E-02	1,04E-01	6,70E-02	MND	1,51E-02	1,19E-02	3,34E-02	3,23E-03	-1,12E-02							
EP-terrestrial	mol Ne	1,12E+00	8,38E-02	5,33E-01	1,74E+00	7,30E-01	MND	1,65E-01	1,30E-01	3,64E-01	3,53E-02	-1,39E-01							
POCP ("smog") ³)	kg NMVOCe	1,51E+01	3,48E-02	1,20E-01	1,53E+01	3,01E-01	MND	4,93E-02	5,35E-02	1,15E-01	1,26E-02	-3,86E-02							
ADP-minerals & metals ⁴)	kg Sbe	7,50E-04	1,92E-05	2,86E-05	7,98E-04	1,67E-04	MND	1,29E-06	2,97E-05	1,11E-04	1,91E-06	-5,43E-05							
ADP-fossil resources	MJ	8,54E+02	9,99E+01	2,66E+02	1,22E+03	8,68E+02	MND	4,72E+01	1,54E+02	1,78E+02	2,93E+01	-9,71E+01							
Water use ⁵⁾	m³e depr.	2,80E+01	4,95E-01	1,20E+01	4,05E+01	4,29E+00	MND	1,18E-01	7,63E-01	1,44E+00	8,79E-02	-1,10E+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.

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

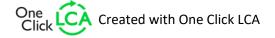
Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	В3	B4	B5	В6	В7	C1	C2	С3	C4	D
Particulate matter	Incidence	5,14E-06	6,89E-07	2,10E-06	7,93E-06	5,99E-06	MND	9,25E-07	1,07E-06	7,52E-06	1,93E-07	-7,10E-07							
Ionizing radiation ⁶⁾	kBq	6,11E+03	9,02E-02	1,34E+01	6,12E+03	7,56E-01	MND	2,09E-02	1,35E-01	8,47E-01	1,85E-02	-6,42E-01							
Ecotoxicity (freshwater)	CTUe	2,06E+02	1,39E+01	2,61E+01	2,46E+02	1,23E+02	MND	2,60E+00	2,18E+01	4,19E+01	2,47E+00	-1,40E+01							
Human toxicity, cancer	CTUh	2,69E-06	1,14E-09	8,09E-09	2,70E-06	9,88E-09	MND	3,71E-10	1,76E-09	3,31E-09	2,45E-10	-1,75E-09							
Human tox. non-cancer	CTUh	2,18E-06	6,47E-08	2,30E-07	2,47E-06	5,62E-07	MND	5,87E-09	1,00E-07	1,65E-07	5,37E-09	1,32E-08							
SQP ⁷⁾	-	6,42E+02	1,01E+02	1,48E+03	2,23E+03	8,75E+02	MND	3,30E+00	1,56E+02	1,59E+02	5,76E+01	-8,71E+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	А3	A1-A3	A4	A5	B1	B2	В3	B4	B5	В6	В7	C1	C2	С3	C4	D
Renew. PER as energy ⁸⁾	MJ	2,16E+02	1,39E+00	6,17E+02	8,35E+02	1,19E+01	MND	2,99E-01	2,12E+00	1,06E+01	2,84E-01	-9,37E+00							
Renew. PER as material	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	MND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00							
Total use of renew. PER	MJ	2,16E+02	1,39E+00	6,17E+02	8,35E+02	1,19E+01	MND	2,99E-01	2,12E+00	1,06E+01	2,84E-01	-9,37E+00							
Non-re. PER as energy	MJ	8,26E+02	9,99E+01	2,58E+02	1,18E+03	8,69E+02	MND	4,72E+01	1,54E+02	1,78E+02	2,58E+01	-9,71E+01							
Non-re. PER as material	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	MND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00							
Total use of non-re. PER	MJ	8,26E+02	9,99E+01	2,58E+02	1,18E+03	8,69E+02	MND	4,72E+01	1,54E+02	1,78E+02	2,58E+01	-9,71E+01							
Secondary materials	kg	1,13E+02	4,26E-02	1,26E-01	1,13E+02	3,70E-01	MND	1,96E-02	6,57E-02	8,33E-02	7,43E-03	5,29E-01							
Renew. secondary fuels	MJ	9,35E+01	5,41E-04	4,54E-01	9,39E+01	4,70E-03	MND	5,12E-05	8,35E-04	1,44E-03	1,53E-04	-8,01E-04							
Non-ren. secondary fuels	MJ	1,62E+02	0,00E+00	0,00E+00	1,62E+02	0,00E+00	MND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00							
Use of net fresh water	m³	1,43E+00	1,48E-02	2,55E-01	1,70E+00	1,28E-01	MND	3,12E-03	2,28E-02	-3,17E-01	3,05E-02	-2,96E-01							

⁸⁾ PER = Primary energy resources.







END OF LIFE – WASTE

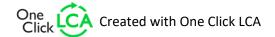
Impact category	Unit	A1	A2	А3	A1-A3	A4	A5	B1	B2	В3	B4	B5	В6	В7	C1	C2	С3	C4	D
Hazardous waste	kg	3,29E+00	1,67E-01	3,24E-01	3,78E+00	1,47E+00	MND	5,25E-02	2,62E-01	3,53E-01	3,48E-02	-1,25E+00							
Non-hazardous waste	kg	6,85E+02	3,11E+00	7,63E+00	6,96E+02	2,72E+01	MND	7,15E-01	4,84E+00	4,60E+02	7,42E-01	7,81E-01							
Radioactive waste	kg	9,58E-03	2,21E-05	2,87E-03	1,25E-02	1,85E-04	MND	5,12E-06	3,29E-05	2,16E-04	4,51E-06	-1,55E-04							

END OF LIFE – OUTPUT FLOWS

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	В3	B4	B5	В6	В7	C1	C2	C3	C4	D
Components for re-use	kg	3,89E+00	0,00E+00	5,10E+00	8,99E+00	0,00E+00	MND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00							
Materials for recycling	kg	3,60E+00	0,00E+00	6,70E+00	1,03E+01	0,00E+00	MND	0,00E+00	0,00E+00	7,98E+02	0,00E+00	0,00E+00							
Materials for energy rec	kg	1,52E-02	0,00E+00	2,80E-01	2,95E-01	0,00E+00	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	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	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	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	А3	A1-A3	A4	A5	B1	B2	В3	B4	B5	В6	B7	C1	C2	C3	C4	D
Global Warming Pot.	kg CO₂e	1,60E+02	6,85E+00	7,68E+00	1,75E+02	5,95E+01	MND	3,59E+00	1,06E+01	1,15E+01	1,47E+00	-8,20E+00							
Ozone depletion Pot.	kg CFC-11e	2,85E-06	8,39E-08	4,24E-07	3,36E-06	7,05E-07	MND	4,37E-08	1,25E-07	1,72E-07	2,74E-08	-5,35E-08							
Acidification	kg SO₂e	4,65E-01	1,78E-02	7,38E-02	5,57E-01	1,56E-01	MND	2,29E-02	2,77E-02	6,86E-02	6,27E-03	-3,74E-02							
Eutrophication	kg PO ₄ ³e	1,26E-01	4,36E-03	3,43E-02	1,65E-01	3,80E-02	MND	5,34E-03	6,75E-03	1,51E-02	2,00E-03	-6,29E-03							
POCP ("smog")	kg C₂H₄e	2,85E-02	1,60E-03	6,67E-03	3,67E-02	1,39E-02	MND	1,71E-03	2,47E-03	4,89E-03	5,92E-04	-3,68E-03							
ADP-elements	kg Sbe	1,19E-03	1,87E-05	2,85E-05	1,23E-03	1,63E-04	MND	1,26E-06	2,90E-05	1,10E-04	1,87E-06	-5,36E-05							
ADP-fossil	MJ	1,09E+03	9,85E+01	8,77E+01	1,28E+03	8,57E+02	MND	4,68E+01	1,52E+02	1,63E+02	2,90E+01	-8,68E+01							



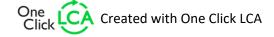




ADDITIONAL INDICATOR – GWP-GHG

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	В3	B4	B5	В6	В7	C1	C2	C3	C4	D
GWP-GHG ⁹⁾	kg CO₂e	1,44E+02	6,89E+00	7,69E+00	1,59E+02	5,99E+01	MND	3,61E+00	1,06E+01	1,16E+01	1,48E+00	-8,25E+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.







THIRD-PARTY 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 for EPD Hub Limited 14.08.2025



