



ENVIRONMENTAL PRODUCT DECLARATION

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

Dwide Recessed Fagerhults Belysning AB



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Created with One Click LCA





GENERAL INFORMATION

MANUFACTURER

Manufacturer	Fagerhults Belysning AB
Address	Åvägen 1, 566 80 Habo, Sweden
Contact details	info@fagerhult.se
Website	www.fagerhult.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 1.1, 5 Dec 2023
Sector	Construction product
Category of EPD	Third party verified EPD
Scope of the EPD	Cradle to gate with options, A4-B7, and modules C1-C4, D
EPD author	Josefin Carlsson
EPD verification	Independent verification of this EPD and data, according to ISO 14025: □ Internal verification ☑ External verification
EPD verifier	Haiha Nguyen, as an authorized verifier 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	Dwide Recessed
Additional labels	-
Product reference	-
Place of production	Habo, Sweden
Period for data	2023
Averaging in EPD	No averaging
Variation in GWP-fossil for A1-A3	-

ENVIRONMENTAL DATA SUMMARY

Declared unit	1 unit of Dwide Recessed
Declared unit mass	3,9 kg
GWP-fossil, A1-A3 (kgCO ₂ e)	37,5
GWP-total, A1-A3 (kgCO ₂ e)	35,7
Secondary material, inputs (%)	23,9
Secondary material, outputs (%)	93,1
Total energy use, A1-A3 (kWh)	170
Net freshwater use, A1-A3 (m ³)	2,2

FAGERHULT





PRODUCT AND MANUFACTURER

ABOUT THE MANUFACTURER

Fagerhult creates premium lighting solutions that enhance human well-being in professional and public environments. With sustainability and connectivity at heart, we focus on office, education, healthcare, retail and outdoor applications. We work closely with customers and partners in the European market and provide lighting solutions globally – with tailor-made solutions for our customers. The Fagerhult brand includes both the product company Fagerhults Belysning AB and 13 sales companies located around Europe.

PRODUCT DESCRIPTION

Dwide is a complete product family that meets the requirements of all lighting projects – no matter if it is for an office, school or hospital. Recessed, ceiling-mounted and suspended luminaires with varying light distribution patterns are complemented by smart corner and wall luminaires. This EPD is only considering the recessed variant in 600 x 600 mm with sensor.

Dwide was developed with the focus on presence and daylight control, and is available with a wide range of options – from simpler controls such as e-Sense Bright Switch and e-Sense Active to Organic Response for intuitively controlled office and work environments.

Dwide contains unique anti-glare technology with dual optics. The microprismatic louvre can be supplemented with a light divider that reflects light a second time and smooths out the contrasts in the luminaire. The result is comfortable lighting that creates a sense of space and meets the lighting requirements for offices and schools.

PRODUCT RAW MATERIAL MAIN COMPOSITION

Raw material category	Amount, mass %	Material origin
Metals	71	Global, mainly EU
Minerals	0	-
Fossil materials	29	Global, mainly EU
Bio-based materials	0	-

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	0,3514

FUNCTIONAL UNIT AND SERVICE LIFE

Declared unit	1 unit of Dwide Recessed
Mass per declared unit	3,9 kg
Functional unit	-
Reference service life	20

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.

Proc	duct s	tage		em- tage			ι	Jse stag	En	d of li	fe sta	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	MNR	MNR	MNR	MNR	MNR	x	MNR	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 product contains components made of metals, plastics and electronics. Material for the driver is included, as a part of the luminaire. All materials and components are transported to Fagerhult's production facility in Habo, Sweden, where the product is being assembled and packaged. Production losses of components that are either designed inhouse or contributes to a significant share of the product's mass are considered in the study. Electricity and district heating is needed for the manufacturing and assembling processes. The energy supply at Fagerhult's facility in Habo is 100 %

renewable. Ancillary materials needed within the manufacturing and assembly process are considered neglected. The product is packaged with EPS supports and tape. The product is being sent to the installation site on a wooden pallet wrapped in plastic film.

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 from the production facility in Habo to the installation site is assumed as an average distance to existing markets based on market share. The calculated average transportation distance is 455 km for road transportation and 2 km for sea transportation based on the sales per market. Vehicle capacity utilization factor may vary in reality, but as the emissions caused by transports are relatively small in relation to the total results, the variety in load is assumed to be neglected and full load is assumed. Return trip is assumed to be used by the transportation company to serve the needs of other clients, therefore are empty returns not taken into account. Transportation impacts that occur from delivery of the product cover direct exhaust emissions of fuel, environmental impacts of fuel production, as well as related infrastructure emissions. Environmental impacts from installation include waste packaging materials from the wood pallet, EPS supports, tape and plastic film. The impacts of energy consumption during installation are included, however used ancillary materials during installation are considered negligible.

PRODUCT USE AND MAINTENANCE (B1-B7)

The product consume electricity during use and the scenario in this study is based on the Swedish electricity grid mix with a system wattage of 36 W. Impacts due to electricity production include direct emissions to air,



transformation and transmission losses. The product is used in several application areas, with a majority in offices and education. An annual operating of 2685 hours has been assumed based on the distribution of the application areas and in accordance with the European standard EN 15193-1. The reference service life is assumed to be 20 years.

PRODUCT END OF LIFE (C1-C4, D)

Consumption of energy are considered in the deconstruction process, but consumption of natural resources is assumed to be negligible. It is assumed that the waste is collected separately and transported to a waste treatment centre. Distance and transportation method to waste treatment is assumed to be 50 km with lorry. According to EN 50693:2019, the sequence of treatment operations occurring to the product shall include de-pollution, fractions separation and preparation (dismantling, crushing, shredding, sorting), recycling, other material recovery, energy recovery and disposal. Energy and resource inputs for sorting and treating the waste streams for recycling and incineration with energy recovery are included.

Due to the material and energy recovery potential of parts in the lighting system, the end-of-life product is converted into recycled raw materials, or energy recovered from incineration that also displaces electricity and heat production. The rates of waste treatment for materials included in the product are based on statistics presented by agencies mainly in Scandinavia. Materials being recycled are 95 % of the metals (World Steel Association), 74 % of the electrical and electronic waste (Elkretsen) and 10 % of the plastics (Naturvårdsverket). The wooden pallet used during transportation is incinerated for energy recovery. The benefits and loads of incineration and recycling of the packaging materials are included.



FLOW DIAGRAM







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.

ALLOCATION, ESTIMATES AND ASSUMPTIONS

Allocation is required if some material, energy, and waste data cannot be measured separately for the product under investigation. All allocations are done as per the reference standards and the applied PCR. In this study, allocation has been done in the following ways:

Data type	Allocation
Raw materials	Partly allocated by mass or volume
Packaging material	Allocated by mass or volume
Ancillary materials	Not applicable
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	-

This EPD is product and factory specific and does not contain average calculations.

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 CO₂e	3,59E+01	3,42E-01	-6,10E-01	3,57E+01	2,09E-01	2,76E+00	MND	MND	MND	MND	MND	9,57E+01	MND	2,23E-03	1,83E-02	1,80E+00	1,11E-02	-6,68E+00
GWP – fossil	kg CO₂e	3,59E+01	3,42E-01	1,22E+00	3,75E+01	2,09E-01	5,16E-01	MND	MND	MND	MND	MND	8,94E+01	MND	2,07E-03	1,83E-02	1,80E+00	1,11E-02	-6,70E+00
GWP – biogenic	kg CO₂e	0,00E+00	0,00E+00	-2,24E+00	-2,24E+00	0,00E+00	2,24E+00	MND	MND	MND	MND	MND	0,00E+00	MND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,72E-02
GWP – LULUC	kg CO₂e	3,68E-02	8,79E-05	4,11E-01	4,48E-01	7,73E-05	1,63E-04	MND	MND	MND	MND	MND	6,27E+00	MND	1,54E-04	6,73E-06	1,27E-04	1,54E-06	-4,05E-03
Ozone depletion pot.	kg CFC-11e	2,84E-06	7,84E-08	5,22E-07	3,44E-06	4,80E-08	2,45E-09	MND	MND	MND	MND	MND	4,36E-06	MND	9,63E-11	4,20E-09	9,68E-09	5,35E-10	-1,30E-06
Acidification potential	mol H⁺e	3,01E-01	1,71E-03	7,35E-03	3,11E-01	9,14E-04	2,29E-04	MND	MND	MND	MND	MND	6,24E-01	MND	1,05E-05	7,73E-05	1,13E-03	1,39E-05	-3,08E-02
EP-freshwater ²⁾	kg Pe	3,57E-03	1,91E-06	4,65E-05	3,62E-03	1,70E-06	3,93E-07	MND	MND	MND	MND	MND	4,87E-03	MND	9,74E-08	1,49E-07	4,59E-06	2,77E-08	-8,82E-05
EP-marine	kg Ne	3,66E-02	5,49E-04	1,75E-03	3,89E-02	2,70E-04	1,01E-04	MND	MND	MND	MND	MND	1,07E-01	MND	2,36E-06	2,30E-05	3,04E-04	2,03E-05	-5,15E-03
EP-terrestrial	mol Ne	4,24E-01	6,04E-03	2,22E-02	4,52E-01	2,98E-03	1,09E-03	MND	MND	MND	MND	MND	1,34E+00	MND	2,93E-05	2,53E-04	3,39E-03	5,23E-05	-5,97E-02
POCP ("smog") ³)	kg NMVOCe	1,44E-01	1,74E-03	6,59E-03	1,53E-01	9,47E-04	2,72E-04	MND	MND	MND	MND	MND	3,16E-01	MND	6,70E-06	8,11E-05	8,84E-04	1,72E-05	-2,76E-02
ADP-minerals & metals⁴)	kg Sbe	6,93E-03	5,28E-07	1,14E-05	6,94E-03	4,88E-07	1,17E-07	MND	MND	MND	MND	MND	6,13E-03	MND	3,88E-08	4,28E-08	8,20E-06	4,59E-09	-7,58E-05
ADP-fossil resources	MJ	4,98E+02	4,97E+00	2,67E+01	5,30E+02	3,13E+00	5,24E-01	MND	MND	MND	MND	MND	1,21E+04	MND	2,96E-01	2,74E-01	1,27E+00	3,83E-02	-8,59E+01
Water use ⁵⁾	m³e depr.	1,37E+01	1,67E-02	1,38E+01	2,75E+01	1,40E-02	7,84E-02	MND	MND	MND	MND	MND	4,65E+02	MND	1,13E-02	1,23E-03	7,03E-02	1,72E-04	-1,72E+00

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



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

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	С3	C4	D
Particulate matter	Incidence	1,96E-06	2,57E-08	9,20E-08	2,08E-06	2,39E-08	3,11E-09	MND	MND	MND	MND	MND	7,43E-06	MND	1,54E-10	2,10E-09	1,20E-08	2,75E-10	-4,04E-07
Ionizing radiation ⁶⁾	kBq U235e	3,55E+00	2,33E-02	1,72E-01	3,74E+00	1,49E-02	2,20E-02	MND	MND	MND	MND	MND	8,67E+02	MND	2,13E-02	1,31E-03	1,24E-02	1,79E-04	-5,43E-01
Ecotoxicity (freshwater)	CTUe	2,68E+03	3,83E+00	3,81E+01	2,72E+03	2,81E+00	5,43E-01	MND	MND	MND	MND	MND	5,99E+03	MND	1,04E-01	2,47E-01	6,33E+00	8,50E-02	-1,92E+02
Human toxicity, cancer	CTUh	8,92E-08	8,42E-11	3,39E-09	9,26E-08	6,95E-11	6,36E-11	MND	MND	MND	MND	MND	2,01E-07	MND	2,70E-12	6,06E-12	2,27E-10	1,17E-12	-1,19E-08
Human tox. non-cancer	CTUh	2,51E-06	4,36E-09	2,60E-08	2,54E-06	2,78E-09	2,47E-09	MND	MND	MND	MND	MND	4,72E-06	MND	5,30E-11	2,44E-10	1,54E-08	3,55E-11	6,54E-07
SQP ⁷⁾	-	1,61E+02	3,87E+00	2,13E+02	3,77E+02	3,59E+00	2,14E-01	MND	MND	MND	MND	MND	2,83E+03	MND	6,71E-02	3,16E-01	1,76E+00	8,71E-02	-2,79E+01

6) EN 15804+A2 disclaimer for lonizing 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	С3	C4	D
Renew. PER as energy ⁸⁾	MJ	4,36E+01	4,11E-02	6,35E+01	1,07E+02	3,52E-02	1,27E-01	MND	MND	MND	MND	MND	5,03E+03	MND	1,22E-01	3,09E-03	1,81E-01	5,33E-04	-8,15E+00
Renew. PER as material	MJ	0,00E+00	0,00E+00	1,97E+01	1,97E+01	0,00E+00	-1,97E+01	MND	MND	MND	MND	MND	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	4,36E+01	4,11E-02	8,32E+01	1,27E+02	3,52E-02	-1,96E+01	MND	MND	MND	MND	MND	5,03E+03	MND	1,22E-01	3,09E-03	1,81E-01	5,33E-04	-8,15E+00
Non-re. PER as energy	MJ	4,81E+02	4,97E+00	1,82E+01	5,04E+02	3,13E+00	5,22E-01	MND	MND	MND	MND	MND	1,21E+04	MND	2,95E-01	2,74E-01	1,27E+00	3,83E-02	-6,60E+01
Non-re. PER as material	MJ	1,56E+01	0,00E+00	8,48E+00	2,41E+01	0,00E+00	-8,48E+00	MND	MND	MND	MND	MND	0,00E+00	MND	0,00E+00	0,00E+00	-1,70E+01	-6,77E-01	7,24E+00
Total use of non-re. PER	MJ	4,96E+02	4,97E+00	2,67E+01	5,28E+02	3,13E+00	-7,96E+00	MND	MND	MND	MND	MND	1,21E+04	MND	2,95E-01	2,74E-01	-1,58E+01	-6,39E-01	-5,87E+01
Secondary materials	kg	9,32E-01	9,83E-04	7,77E-02	1,01E+00	8,71E-04	4,15E-04	MND	MND	MND	MND	MND	1,09E+00	MND	2,05E-05	7,61E-05	1,36E-03	1,08E-05	2,35E+00
Renew. secondary fuels	MJ	2,00E-02	9,92E-06	6,65E-01	6,85E-01	8,75E-06	1,69E-06	MND	MND	MND	MND	MND	4,54E-03	MND	6,82E-08	7,68E-07	6,07E-05	2,50E-07	-6,61E-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	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	3,59E-01	4,77E-04	1,84E+00	2,20E+00	4,05E-04	1,81E-04	MND	MND	MND	MND	MND	1,17E+01	MND	2,84E-04	3,55E-05	9,58E-04	4,16E-05	-5,42E-02

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	5,80E+00	4,77E-03	5,96E-02	5,86E+00	4,15E-03	4,94E-04	MND	MND	MND	MND	MND	1,01E+01	MND	2,21E-04	3,64E-04	7,80E-03	0,00E+00	-2,24E+00
Non-hazardous waste	kg	9,31E+01	7,61E-02	1,31E+00	9,45E+01	6,80E-02	9,59E-01	MND	MND	MND	MND	MND	2,73E+02	MND	5,30E-03	5,97E-03	7,92E-01	2,13E-01	-1,16E+01
Radioactive waste	kg	1,18E-03	3,42E-05	7,14E-05	1,29E-03	2,09E-05	5,05E-06	MND	MND	MND	MND	MND	1,86E-01	MND	4,56E-06	1,83E-06	5,55E-06	0,00E+00	-1,28E-04

END OF LIFE – OUTPUT FLOWS

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Components for re-use	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	MND	MND	MND	MND	MND	0,00E+00	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	7,42E-01	7,42E-01	0,00E+00	1,88E-02	MND	MND	MND	MND	MND	0,00E+00	MND	0,00E+00	0,00E+00	3,11E+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	9,45E-01	MND	MND	MND	MND	MND	0,00E+00	MND	0,00E+00	0,00E+00	5,64E-01	0,00E+00	0,00E+00
Exported energy	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,07E+01	MND	MND	MND	MND	MND	0,00E+00	MND	0,00E+00	0,00E+00	1,04E+01	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	В5	B6	B7	C1	C2	C3	C4	D
Global Warming Pot.	kg CO₂e	3,48E+01	3,40E-01	1,66E+00	3,68E+01	2,06E-01	5,15E-01	MND	MND	MND	MND	MND	9,45E+01	MND	2,20E-03	1,81E-02	1,80E+00	9,19E-03	-6,39E+00
Ozone depletion Pot.	kg CFC-11e	2,73E-06	6,20E-08	3,73E-07	3,17E-06	3,80E-08	2,05E-09	MND	MND	MND	MND	MND	3,92E-06	MND	8,64E-11	3,33E-09	7,96E-09	4,24E-10	-9,36E-07
Acidification	kg SO₂e	2,55E-01	1,32E-03	5,61E-03	2,62E-01	7,11E-04	1,63E-04	MND	MND	MND	MND	MND	5,01E-01	MND	8,08E-06	6,01E-05	8,82E-04	1,05E-05	-2,62E-02
Eutrophication	kg PO₄³e	1,19E-01	2,68E-04	2,11E-03	1,21E-01	1,59E-04	2,04E-04	MND	MND	MND	MND	MND	2,51E-01	MND	4,83E-06	1,37E-05	4,30E-04	1,57E-03	-9,89E-03
POCP ("smog")	kg C₂H₄e	1,46E-02	4,02E-05	5,80E-04	1,52E-02	2,74E-05	5,40E-06	MND	MND	MND	MND	MND	2,42E-02	MND	4,23E-07	2,34E-06	3,02E-05	1,70E-06	-2,97E-03
ADP-elements	kg Sbe	6,91E-03	5,11E-07	1,12E-05	6,92E-03	4,72E-07	1,11E-07	MND	MND	MND	MND	MND	6,14E-03	MND	3,92E-08	4,14E-08	8,18E-06	4,48E-09	-7,53E-05
ADP-fossil	MJ	4,98E+02	4,97E+00	2,67E+01	5,30E+02	3,13E+00	5,22E-01	MND	MND	MND	MND	MND	1,21E+04	MND	2,95E-01	2,74E-01	1,27E+00	3,83E-02	-8,59E+01



FAGERHULT

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.

HaiHa Nguyen, as an authorized verifier acting for EPD Hub Limited 17.10.2024





