



ENVIRONMENTAL PRODUCT DECLARATION

IN ACCORDANCE WITH EN 15804+A2 & ISO 14025

CFS-VB E60 Firestop Cavity Barrier

Hilti AG



EPD HUB, HUB-3703

Published on 28.07.2025, last updated on 28.07.2025, valid until 28.07.2030

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	Hilti AG
Address	Feldkircherstrasse 100, FL-9494, Schaan, Liechtenstein
Contact details	sustainability@hilti.com
Website	www.hilti.group

EPD STANDARDS, SCOPE AND VERIFICATION

Program operator	EPD Hub, hub@epdhub.com
Reference standard	EN 15804:2012+A2:2019/AC:2021 and ISO 14025
PCR	EPD Hub Core PCR Version 1.1, 5 Dec 2023
Sector	Construction product
Category of EPD	Third party verified EPD
Scope of the EPD	Cradle to gate with options, A4-A5, and modules C1-C4, D
EPD author	Siti Nur Syaza, Emily Hooper, Hilti AG
EPD verification	Independent verification of this EPD and data, according to ISO 14025: <input type="checkbox"/> Internal verification <input checked="" type="checkbox"/> 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

Product name	CFS-VB E60
Additional labels	-
Product reference	2395732, 2395733, 2395734, 2395735, 2395736, 2395737, 2395738, 2395739, 2395750, 2395751, 2395752, 2395753, 2395754, 2395755, 2395756, 2395757, 2395758, 2395759
Place(s) of raw material origin	Europe
Place of production	Ajdovščina, Slovenia
Place(s) of installation and use	-
Period for data	Calendar year 2024
Averaging in EPD	Multiple products
Variation in GWP-fossil for A1-A3 (%)	+/- 20.16
A1-A3 Specific data (%)	98

ENVIRONMENTAL DATA SUMMARY

Declared unit	1 kg of CFS-VB E60
Declared unit mass	1 kg
GWP-fossil, A1-A3 (kgCO ₂ e)	1,54E+00
GWP-total, A1-A3 (kgCO ₂ e)	8,04E-01
Secondary material, inputs (%)	0,27
Secondary material, outputs (%)	0
Total energy use, A1-A3 (kWh)	6,02
Net freshwater use, A1-A3 (m ³)	0,02

PRODUCT AND MANUFACTURER

ABOUT THE MANUFACTURER

The Hilti Group supplies the worldwide construction and energy industries with technologically leading products, systems, software and services. With about 34,000 team members in over 120 countries the company stands for direct customer relationships, quality and innovation. The headquarters of the Hilti Group have been located in Schaan, Liechtenstein, since its founding in 1941. The company is privately owned by the Martin Hilti Family Trust, which ensures its long-term continuity. The Hilti Group's purpose is making construction better, based on a passionate and inclusive global team and a caring and performance-oriented culture.

PRODUCT DESCRIPTION

Pre-formed fire cavity barrier for rainscreen cladding with 60 minutes of fire integrity and air gaps up to 25 mm or 50mm.

Length: 1200 mm

Height: 80 mm

Density: 80kg/m³ (mineral wool boards + Aluminium facing)

Applications:

- 1) Sealing building envelope cavities to better prevent the spread of fire via the façade.
- 2) Firestopping ventilated rainscreen cladding while leaving an air gap of up to 25mm or 50mm.

Verified fire resistance for 60 minutes integrity and up to 30 minutes insulation according to ASFP TGD19.

The product for a 25mm gap is available in widths of 75mm, 125mm, 175mm, 225mm, 275mm, 325mm and 375mm and for a 50mm gap in widths of 50mm,

75mm, 100mm, 125mm, 150mm, 175mm, 200mm, 225mm, 250mm, 300mm and 350mm.

Further information can be found at www.hilti.group

PRODUCT RAW MATERIAL MAIN COMPOSITION

Raw material category	Amount, mass %	Material origin
Metals	0,001	Germany
Minerals	74,07	Croatia, Germany
Fossil materials	25,88	Germany, China
Bio-based materials	0	-

BIOGENIC CARBON CONTENT

Product's biogenic carbon content at the factory gate

Biogenic carbon content in product, kg C	0,157
Biogenic carbon content in packaging, kg C	0,2046

FUNCTIONAL UNIT AND SERVICE LIFE

Declared unit	1 kg of CFS-VB E60
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 not included in this stage. The study also not consider 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.

The product is a pre-formed fire cavity barrier for rainscreen cladding with 60 minutes of fire integrity and air gaps up to 25 mm or 50mm. The raw materials are sourced throughout Europe (transport assumed to be 400 - 800 km by truck), except for graphite from a third party (assumed distance of 400 km by truck and 1,200 km by ship) prior to transport to Hilti's production facility located in Ajdovščina, Slovenia where the main manufacturing processes include assembly and packaging. The finished product is packaged and sent to distributor in Nendeln, Liechtenstein before being sent to the installation site.

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.

Transportation distance is defined according to the PCR. A4 is based on a sales-weighted average transport distance from the production plant in Slovenia to the distributor in Liechtenstein, estimated to be about 500 km by truck, followed by shipment to the representative place of installation in the sales region (equating to 956km by truck and 6052.5km by container ship for this product due to its global distribution). Vehicle capacity utilization volume factor is assumed to be 1 which means full load. Vehicle capacity utilization volume factor is assumed to be 1 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. To be conservative, empty returns are included in this study as implemented through an average load factor in the Ecoinvent transport datapoints. Transportation does not cause losses as products are packaged properly. Also, volume capacity utilization factor is assumed to be 1 for the nested packaged products. Disposal of the packaging, including some residual product within, is accounted for in A5. Emissions due

to installation are assumed to be negligible as they are typically performed using simple manual tools which do not consume energy.

PRODUCT USE AND MAINTENANCE (B1-B7)

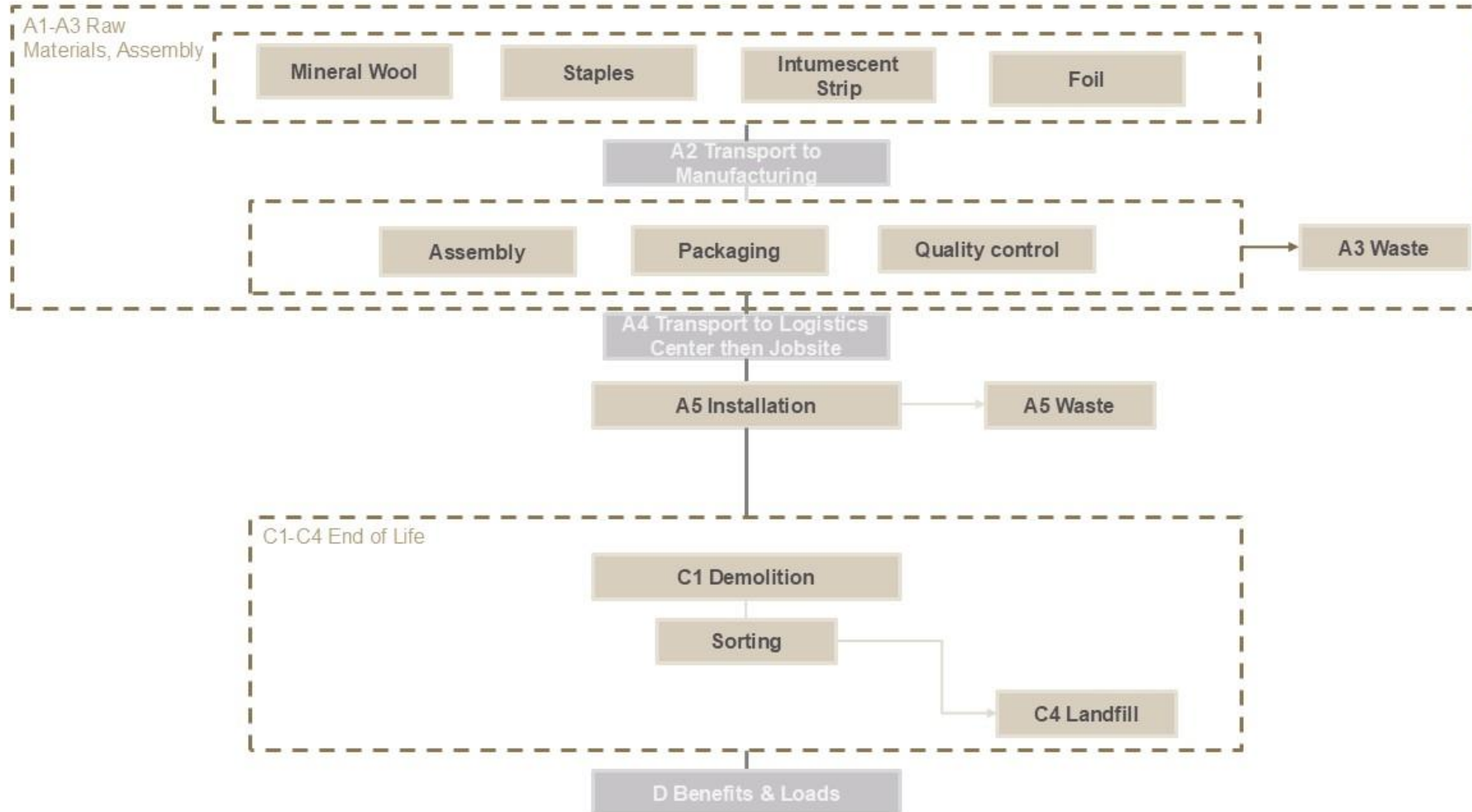
This EPD does not cover the use phase.

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

PRODUCT END OF LIFE (C1-C4, D)

Consumption of energy and natural resources in demolition process is assumed to be negligible. As a barrier that cannot be economically separated into its constituent parts, it is assumed that the product must be disposed of entirely in landfill. Transportation distance to landfill is assumed as 50 km and the transportation method is assumed to be lorry (C2). The benefits and loads of packaging recycling are included in Model D.

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.

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.

This LCA study includes the provision of all materials, transportation, and emission flows, and end-of-life processing of product. All industrial processes from raw material acquisition, pre-processing, production, product distribution, installation and end-of-life management are included. Due to lack of data, no ancillary materials data are included in the model. These include materials which are used in the product manufacturing only in very small amounts and have a negligible impact on the emissions of the product. The production of capital equipment, construction activities, 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	No allocation
Ancillary materials	Not applicable
Manufacturing energy and waste	Allocated by mass or volume

PRODUCT & MANUFACTURING SITES GROUPING

Type of grouping	Multiple products
Grouping method	Based on average results of product group - by total mass
Variation in GWP-fossil for A1-A3, %	+/- 20.16

CFS-VB E60 is available in 2 versions in different sizes (refer appendix) that can close air gaps of up to 25mm or 50mm. The raw material formulation,

manufacturing processes and locations remain identical in every case. The version averaging by total mass as the representative product where all variants for CFS-VB E60 are defined together for this EPD as it accounts for the mixture of the product, and the variability in GWP-fossil for A1-A3 is within the allowed range. All product variants were assessed separately and in full in order to document this.

LCA SOFTWARE AND BIBLIOGRAPHY

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

ENVIRONMENTAL IMPACT DATA

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

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

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 ₂ e	1,18E+00	7,91E-02	-4,56E-01	8,04E-01	2,98E-01	7,59E-01	MND	MND	MND	MND	MND	MND	MND	0,00E+00	5,39E-03	0,00E+00	1,79E-02	-3,59E-02
GWP – fossil	kg CO ₂ e	1,27E+00	7,91E-02	1,91E-01	1,54E+00	2,98E-01	2,12E-02	MND	MND	MND	MND	MND	MND	MND	0,00E+00	5,38E-03	0,00E+00	1,79E-02	4,51E-03
GWP – biogenic	kg CO ₂ e	-8,92E-02	5,90E-06	-6,49E-01	-7,38E-01	6,15E-05	7,37E-01	MND	MND	MND	MND	MND	MND	MND	0,00E+00	1,22E-06	0,00E+00	-4,87E-06	-4,06E-02
GWP – LULUC	kg CO ₂ e	1,71E-03	3,56E-05	2,10E-03	3,85E-03	1,41E-04	1,26E-05	MND	MND	MND	MND	MND	MND	MND	0,00E+00	2,41E-06	0,00E+00	4,65E-05	2,05E-04
Ozone depletion pot.	kg CFC-11e	9,32E-09	1,17E-09	5,20E-09	1,57E-08	4,36E-09	2,36E-10	MND	MND	MND	MND	MND	MND	MND	0,00E+00	7,95E-11	0,00E+00	3,73E-10	1,74E-10
Acidification potential	mol H ⁺ e	2,81E-01	3,18E-04	9,66E-04	2,82E-01	3,21E-03	6,52E-05	MND	MND	MND	MND	MND	MND	MND	0,00E+00	1,84E-05	0,00E+00	9,75E-05	9,67E-06
EP-freshwater ²⁾	kg Pe	1,81E-04	6,07E-06	5,76E-05	2,45E-04	1,93E-05	3,63E-06	MND	MND	MND	MND	MND	MND	MND	0,00E+00	4,19E-07	0,00E+00	1,47E-06	-1,86E-05
EP-marine	kg Ne	8,88E-04	1,00E-04	3,02E-04	1,29E-03	8,56E-04	1,20E-04	MND	MND	MND	MND	MND	MND	MND	0,00E+00	6,03E-06	0,00E+00	3,71E-05	-1,71E-05
EP-terrestrial	mol Ne	9,65E-03	1,09E-03	2,98E-03	1,37E-02	9,46E-03	2,43E-04	MND	MND	MND	MND	MND	MND	MND	0,00E+00	6,56E-05	0,00E+00	4,02E-04	-1,58E-04
POCP (“smog”) ³⁾	kg NMVOCe	3,11E-03	4,29E-04	1,19E-03	4,73E-03	2,93E-03	9,51E-05	MND	MND	MND	MND	MND	MND	MND	0,00E+00	2,70E-05	0,00E+00	1,41E-04	-4,15E-05
ADP-minerals & metals ⁴⁾	kg Sbe	1,55E-05	2,17E-07	1,17E-06	1,69E-05	6,77E-07	4,35E-08	MND	MND	MND	MND	MND	MND	MND	0,00E+00	1,50E-08	0,00E+00	4,75E-08	3,69E-08
ADP-fossil resources	MJ	1,37E+01	1,14E+00	3,66E+00	1,85E+01	4,13E+00	2,21E-01	MND	MND	MND	MND	MND	MND	MND	0,00E+00	7,81E-02	0,00E+00	3,19E-01	1,48E-01
Water use ⁵⁾	m ³ e depr.	6,30E-01	5,60E-03	1,66E-01	8,01E-01	1,82E-02	1,65E-03	MND	MND	MND	MND	MND	MND	MND	0,00E+00	3,86E-04	0,00E+00	1,28E-03	2,24E-02

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, EF 3.1

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	3,89E-08	7,79E-09	1,37E-08	6,04E-08	2,39E-08	1,53E-09	MND	MND	MND	MND	MND	MND	MND	0,00E+00	5,39E-10	0,00E+00	2,15E-09	1,06E-10
Ionizing radiation ⁶⁾	kBq 11235e	2,52E-02	9,87E-04	1,60E-02	4,22E-02	3,16E-03	3,83E-04	MND	MND	MND	MND	MND	MND	MND	0,00E+00	6,80E-05	0,00E+00	2,41E-04	4,96E-03
Ecotoxicity (freshwater)	CTUe	5,09E+00	1,60E-01	1,42E+00	6,66E+00	5,14E-01	1,05E-01	MND	MND	MND	MND	MND	MND	MND	0,00E+00	1,10E-02	0,00E+00	7,69E-02	-7,95E-03
Human toxicity, cancer	CTUh	3,14E-10	1,31E-11	6,74E-10	1,00E-09	5,31E-11	4,25E-12	MND	MND	MND	MND	MND	MND	MND	0,00E+00	8,88E-13	0,00E+00	4,02E-12	2,49E-12
Human tox. non-cancer	CTUh	1,20E-08	7,31E-10	1,86E-09	1,46E-08	2,26E-09	2,35E-10	MND	MND	MND	MND	MND	MND	MND	0,00E+00	5,06E-11	0,00E+00	1,45E-10	1,33E-10
SQP ⁷⁾	-	8,37E+00	1,13E+00	5,60E+01	6,55E+01	3,20E+00	2,97E-01	MND	MND	MND	MND	MND	MND	MND	0,00E+00	7,87E-02	0,00E+00	4,33E-01	-3,22E+00

6) EN 15804+A2 disclaimer for Ionizing radiation, human health. This impact category deals mainly with the eventual impact of low-dose ionizing radiation on human health of the nuclear fuel cycle. It does not consider effects due to possible nuclear accidents, occupational exposure nor due to radioactive waste disposal in underground facilities. Potential ionizing radiation from the soil, from radon and from some construction materials is also not measured by this indicator; 7) SQP = Land use related impacts/soil quality.

USE OF NATURAL RESOURCES

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Renew. PER as energy ⁸⁾	MJ	2,18E+00	1,55E-02	3,95E+00	6,15E+00	5,03E-02	-5,45E+00	MND	MND	MND	MND	MND	MND	MND	0,00E+00	1,07E-03	0,00E+00	3,96E-03	-9,56E-02
Renew. PER as material	MJ	7,74E-01	0,00E+00	6,44E+00	7,22E+00	0,00E+00	-6,44E+00	MND	MND	MND	MND	MND	MND	MND	0,00E+00	0,00E+00	0,00E+00	-7,74E-01	7,63E-01
Total use of renew. PER	MJ	2,96E+00	1,55E-02	1,04E+01	1,34E+01	5,03E-02	-1,19E+01	MND	MND	MND	MND	MND	MND	MND	0,00E+00	1,07E-03	0,00E+00	-7,70E-01	6,68E-01
Non-re. PER as energy	MJ	1,16E+01	1,14E+00	2,55E+00	1,53E+01	4,13E+00	-3,79E-01	MND	MND	MND	MND	MND	MND	MND	0,00E+00	7,81E-02	0,00E+00	3,20E-01	1,41E-01
Non-re. PER as material	MJ	6,49E+00	0,00E+00	1,12E+00	7,61E+00	0,00E+00	-1,12E+00	MND	MND	MND	MND	MND	MND	MND	0,00E+00	0,00E+00	0,00E+00	-6,49E+00	1,52E-02
Total use of non-re. PER	MJ	1,81E+01	1,14E+00	3,67E+00	2,29E+01	4,13E+00	-1,50E+00	MND	MND	MND	MND	MND	MND	MND	0,00E+00	7,81E-02	0,00E+00	-6,17E+00	1,56E-01
Secondary materials	kg	2,74E-03	4,88E-04	5,87E-02	6,20E-02	1,81E-03	1,15E-04	MND	MND	MND	MND	MND	MND	MND	0,00E+00	3,32E-05	0,00E+00	1,13E-04	1,94E-02
Renew. secondary fuels	MJ	6,67E-04	6,09E-06	2,05E-01	2,06E-01	1,78E-05	1,44E-06	MND	MND	MND	MND	MND	MND	MND	0,00E+00	4,22E-07	0,00E+00	1,74E-06	-3,37E-07
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	1,65E-02	1,67E-04	2,29E-03	1,89E-02	5,28E-04	-9,87E-04	MND	MND	MND	MND	MND	MND	MND	0,00E+00	1,15E-05	0,00E+00	1,85E-04	5,78E-04

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	3,96E-02	1,93E-03	1,23E-02	5,39E-02	6,61E-03	6,75E-04	MND	MND	MND	MND	MND	MND	MND	0,00E+00	1,32E-04	0,00E+00	4,72E-04	9,93E-04
Non-hazardous waste	kg	1,27E+00	3,56E-02	3,16E-01	1,62E+00	1,16E-01	1,38E+00	MND	MND	MND	MND	MND	MND	MND	0,00E+00	2,45E-03	0,00E+00	9,45E-03	-5,51E-03
Radioactive waste	kg	6,97E-05	2,42E-07	4,78E-06	7,47E-05	7,73E-07	9,52E-08	MND	MND	MND	MND	MND	MND	MND	0,00E+00	1,67E-08	0,00E+00	5,88E-08	1,27E-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	0,00E+00	0,00E+00	0,00E+00	7,84E-02	MND	MND	MND	MND	MND	MND	MND	0,00E+00	0,00E+00	0,00E+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	4,14E-02	MND	MND	MND	MND	MND	MND	MND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Exported energy – Electricity	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,69E-02	MND	MND	MND	MND	MND	MND	MND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Exported energy – Heat	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,45E-02	MND	MND	MND	MND	MND	MND	MND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00

ENVIRONMENTAL IMPACTS – EN 15804+A1, CML / 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 ₂ e	1,27E+00	7,87E-02	1,90E-01	1,53E+00	2,96E-01	3,97E-02	MND	MND	MND	MND	MND	MND	MND	0,00E+00	5,35E-03	0,00E+00	1,78E-02	4,64E-03
Ozone depletion Pot.	kg CFC ₋₁₁ e	-8,98E-02	9,31E-10	4,45E-09	-8,98E-02	3,48E-09	1,89E-10	MND	MND	MND	MND	MND	MND	MND	0,00E+00	6,34E-11	0,00E+00	2,97E-10	1,43E-10
Acidification	kg SO ₂ e	3,50E-03	2,44E-04	7,46E-04	4,49E-03	2,54E-03	4,93E-05	MND	MND	MND	MND	MND	MND	MND	0,00E+00	1,40E-05	0,00E+00	7,23E-05	1,93E-05
Eutrophication	kg PO ₄ ³ e	2,55E-02	5,38E-05	5,21E-03	3,07E-02	3,53E-04	2,57E-05	MND	MND	MND	MND	MND	MND	MND	0,00E+00	3,41E-06	0,00E+00	2,23E-05	-3,34E-06
POCP (“smog”)	kg C ₂ H ₄ e	3,23E-04	2,01E-05	1,12E-04	4,56E-04	1,48E-04	8,44E-06	MND	MND	MND	MND	MND	MND	MND	0,00E+00	1,25E-06	0,00E+00	6,42E-06	-1,82E-06
ADP-elements	kg Sbe	1,52E-05	2,12E-07	1,16E-06	1,66E-05	6,62E-07	4,25E-08	MND	MND	MND	MND	MND	MND	MND	0,00E+00	1,46E-08	0,00E+00	4,64E-08	3,38E-08
ADP-fossil	MJ	2,22E+01	1,13E+00	3,40E+00	2,68E+01	4,08E+00	2,15E-01	MND	MND	MND	MND	MND	MND	MND	0,00E+00	7,70E-02	0,00E+00	3,15E-01	6,04E-02

ADDITIONAL INDICATOR – GWP-GHG

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
GWP-GHG ⁹⁾	kg CO ₂ e	1,27E+00	7,91E-02	1,93E-01	1,54E+00	2,98E-01	2,12E-02	MND	MND	MND	MND	MND	MND	MND	0,00E+00	5,38E-03	0,00E+00	1,79E-02	4,71E-03

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
28.07.2025



APPENDIX

PRODUCT PORTFOLIO INCLUDED IN SCOPE

The following list of products are included in the scope of this declaration, as represented by averaging the CFS-VB E60.

Item number	Item designation	Weight [kg]
2395732	CFS-VB E60 75+25	0.7828
2395733	CFS-VB E60 125+25	1.1668
2395734	CFS-VB E60 175+25	1.5508
2395735	CFS-VB E60 225+25	1.9348
2395736	CFS-VB E60 275+25	2.3188
2395737	CFS-VB E60 325+25	2.7028
2395738	CFS-VB E60 375+25	3.0868
2395739	CFS-VB E60 50+50	3.4468
2395750	CFS-VB E60 75+50	3.6388
2395751	CFS-VB E60 100+50	3.8308
2395752	CFS-VB E60 125+50	4.0228
2395753	CFS-VB E60 150+50	4.2148
2395754	CFS-VB E60 175+50	4.4068
2395755	CFS-VB E60 200+50	4.5988
2395756	CFS-VB E60 225+50	4.7908
2395757	CFS-VB E60 250+50	4.9828
2395758	CFS-VB E60 300+50	5.3668
2395759	CFS-VB E60 350+50	5.7508