

ENVIRONMENTAL PRODUCT DECLARATION

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

Eco-resilient Composite Flooring
CFL



EPD HUB, EPD number HUB-2490

Published on 21.02.2025, last updated on 21.02.2025, valid until 21.02.2030



GENERAL INFORMATION

MANUFACTURER

Manufacturer	CFL
Address	Room 2703, 27/F, Tower 1, Admiralty Centre, No. 18 Harcourt Road, Hong Kong
Contact details	Sustainability@cflflooring.com
Website	www.cflflooring.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 EN 16810 Product category rules for resilient, textile and laminate floor coverings
Sector	Construction product
Category of EPD	Third party verified EPD
Parent EPD number	-
Scope of the EPD	Cradle to gate with options, A4-B7, and modules C1-C4, D
EPD author	Lia Yan
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

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	Eco-resilient Composite Flooring
Additional labels	
Product reference	
Place of production	Jiaxing, China
Period for data	Aug 2023 - July 2024
Averaging in EPD	Multiple products
Variation in GWP-fossil for A1-A3	11 %

ENVIRONMENTAL DATA SUMMARY

Declared unit	1 m ²
Declared unit mass	7.2 kg
GWP-fossil, A1-A3 (kgCO ₂ e)	7,30E+00
GWP-total, A1-A3 (kgCO ₂ e)	-4,13E+00
Secondary material, inputs (%)	0.2
Secondary material, outputs (%)	95
Total energy use, A1-A3 (kWh)	49.5
Net freshwater use, A1-A3 (m ³)	0.11

PRODUCT AND MANUFACTURER

ABOUT THE MANUFACTURER

CFL Flooring (Creative Flooring Solutions), is the largest manufacturer of SPC and other hybrid flooring products worldwide. The company is recognized globally as an innovator – committed to developing, manufacturing, and marketing sustainable, value-added flooring products. CFL employs over 3500 associates around the world including in the USA, China, Europe, and Vietnam, leveraging years of technical flooring expertise with the common vision of being the leader in flooring innovation. CFL’s extensive patent portfolio made up of hundreds of patents, granted and filed, is a core element in fulfilling this vision.

PRODUCT DESCRIPTION

CFL’s Eco-Resilient Composite Flooring (ECF) sets a new standard in both sustainability and performance. Composed of up to 80% organic materials, it significantly reduces the environmental impact. Beyond its green credentials, ECF excels in durability, compared to conventional PVC-based waterproof floors. It's also highly resistant to staining agents. With exceptional stability, CFL’s ECF allows for expansive installations without transition moldings, even in doorways. Meeting rigorous safety and environmental standards, this flooring solution offers enhanced performance while maintaining a commitment to sustainability, making it ideal even for commercial use.

Further information can be found at www.cflflooring.com.

PRODUCT RAW MATERIAL MAIN COMPOSITION

Raw material category	Amount, mass %	Material origin
Metals		
Minerals	Up to 10%	China
Fossil materials		
Bio-based materials	Up to 70%	China

BIOGENIC CARBON CONTENT

Product’s biogenic carbon content at the factory gate

Biogenic carbon content in product, kg C	3,02
Biogenic carbon content in packaging, kg C	0,10

FUNCTIONAL UNIT AND SERVICE LIFE

Declared unit	1 m ²
Mass per declared unit	7.2 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	X	X	X	X	X	X	X	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.

Module A1: Raw material supply accounts for the extraction and processing of all raw materials and energy which occur upstream to the studied manufacturing process. ECF flooring raw material supply includes wear resistant protective layer, decorative layer, mineral-wood composite core, balance layer and pre-attached pad. Module A2: Transport from the suppliers to the manufacturer.

Module A3: The products are manufactured at the production facility in China. The manufacturer provided primary data for their annual production, resource use and energy consumption for ECF manufacturing at the facility. Packaging-related flows in the production process are included in the manufacturing module, i.e., packaging film, straps, wood pallet and corrugated board box. Apart from production of packaging material, the supply and transport of packaging material are also considered in the LCA model.

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.

Module A4: This module includes transport from the production gate to the building site. The average transportation distance from production plant to building site is 207 km transported by lorry from facility to port and 13,693 km of port-to-port based on averaged sales in records transported by container ship.

Module A5:

Installation waste includes 5% of product waste and packaging materials. The disposal is assumed same as end of life scenario in Module C1 to C3.

The impacts associated with packaging disposal are included.

Of the packaging materials:

- Wooden pallet assumed 31% recycled, 31% incinerated and 38% landfill

which consists with Eurostat & PSR-0014.

- Plastic (shrink wrap / stretch wrap / PET banding) assumed 32.5% recycled, 42.5% incinerated and 25% landfilled per EuroParl (2023).

- Paper (carton box) assumed 82% recycled, 9% incinerated and 9% landfilled per Eurostat & PSR-0014.

The distance of transportation to the sorting and recycling facilities is unknown, so a conservative distance of 50 km was assumed. Benefits from energy substitution are declared in module D.

PRODUCT USE AND MAINTENANCE (B1-B7)

Module B1-B7: The reference service life (RSL) of ECF is lifetime. Note that the service life may vary depending on the amount, type, and frequency of maintenance by the user. For ECF floorings, only stage B2 is relevant out of B1-B7. Maintenance typically involves sweeping/vacuuming and damp mopping using water.

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

PRODUCT END OF LIFE (C1-C4, D)

Module C1: Disassembly is done manually at use-site, therefore no additional environmental loads are therefore assigned to module C1.

Module C2: It is assumed for 50 km* lorry transport to the site of waste treatment/disposal.

Module C3:

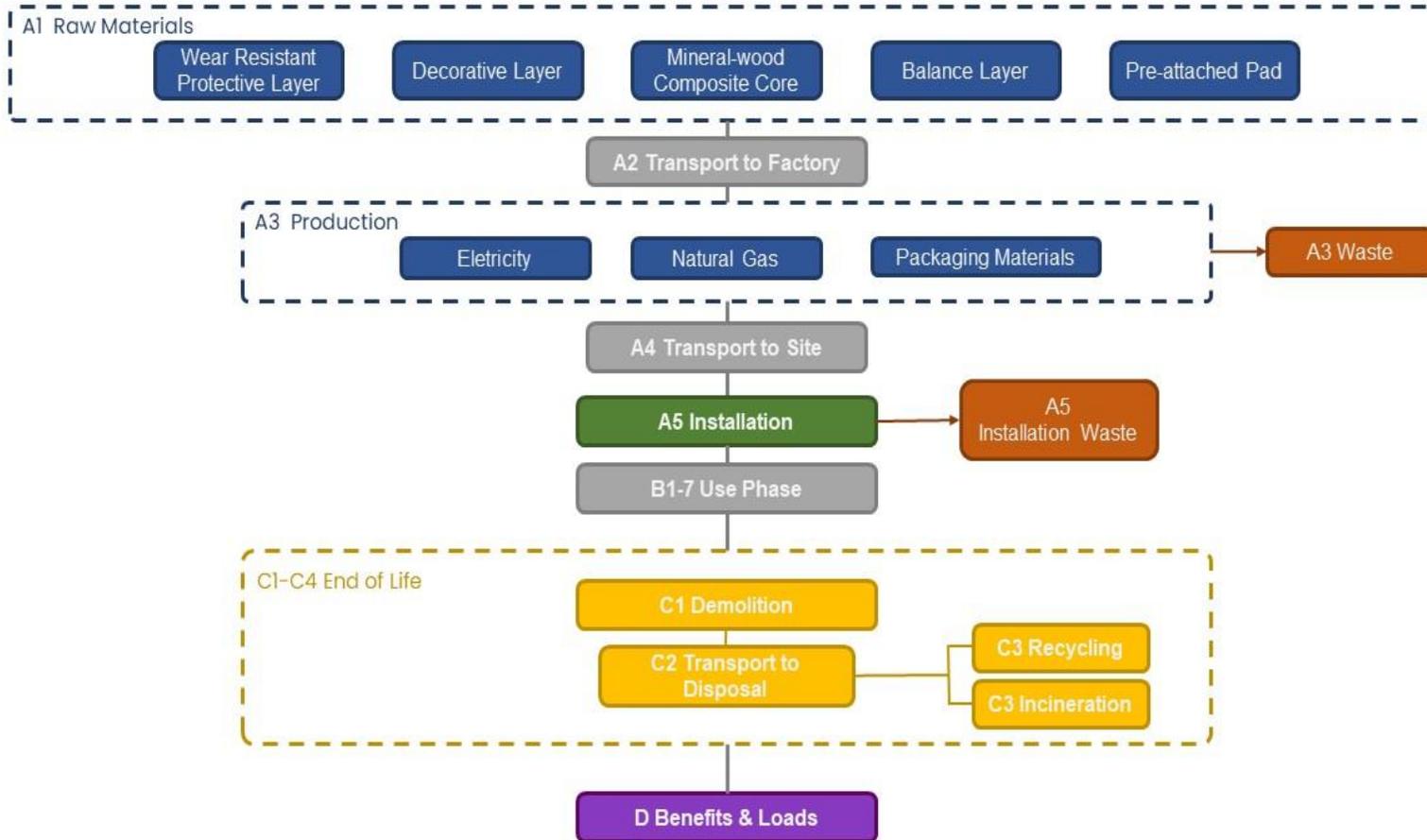
The products are assumed to be 10% recycled and 90% incinerated with energy recovery. This scenario is based on Tackle Climate Change: Use Wood. <https://europanel.org/wp-content/uploads/2018/09/Tackle-Climate-Change-EN.pdf>

Module D:

Benefits from disposal of packaging in module A5 and the product end of life recycled and incinerated in module C3. For recycling process, it is

considered that the board is collected and recycled for use in substitution of wood chips. For energy recovery, it produces heat and electricity.

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.

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	11 %

This EPD covers ECF Floorings with thicknesses ranging from 8mm to 10mm, all produced at the same site using identical manufacturing processes. The main difference between the products is the thickness of the MWC Core, while the other materials remain unchanged. The variability in the A1-A3 GWP-fossil values between the products is approximately 11%. Please find more details in Annex.

LCA SOFTWARE AND BIBLIOGRAPHY

This EPD has been created using One Click LCA EPD Generator. The LCA and EPD have been prepared according to the reference standards and ISO 14040/14044. The EPD Generator uses Ecoinvent v3.8, Plastics Europe, Federal LCA Commons and One Click LCA databases as sources of environmental data.

ENVIRONMENTAL IMPACT DATA

CORE ENVIRONMENTAL IMPACT INDICATORS – EN 15804+A2, PEF

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
GWP – total ¹⁾	kg CO ₂ e	-6,97E+00	5,30E-01	2,31E+00	-4,13E+00	1,06E+00	4,08E-01	MND	5,18E-01	MND	MND	MND	MND	MND	0,00E+00	3,21E-02	1,12E+01	0,00E+00	-3,58E+00
GWP – fossil	kg CO ₂ e	4,63E+00	5,29E-01	2,13E+00	7,30E+00	1,05E+00	2,77E-02	MND	5,18E-01	MND	MND	MND	MND	MND	0,00E+00	3,21E-02	1,05E-01	0,00E+00	-3,57E+00
GWP – biogenic	kg CO ₂ e	-1,16E+01	0,00E+00	1,73E-01	-1,14E+01	0,00E+00	3,81E-01	MND	0,00E+00	MND	MND	MND	MND	MND	0,00E+00	0,00E+00	1,11E+01	0,00E+00	-5,89E-03
GWP – LULUC	kg CO ₂ e	1,12E-02	1,95E-04	1,35E-03	1,27E-02	7,20E-04	8,01E-06	MND	5,79E-04	MND	MND	MND	MND	MND	0,00E+00	1,18E-05	4,91E-05	0,00E+00	-3,01E-03
Ozone depletion pot.	kg CFC-11e	3,63E-07	1,22E-07	7,19E-08	5,57E-07	2,14E-07	1,44E-09	MND	4,29E-08	MND	MND	MND	MND	MND	0,00E+00	7,38E-09	6,87E-09	0,00E+00	-1,84E-07
Acidification potential	mol H ⁺ e	2,87E-02	2,24E-03	9,21E-03	4,02E-02	3,04E-02	9,98E-05	MND	3,62E-03	MND	MND	MND	MND	MND	0,00E+00	1,36E-04	1,06E-03	0,00E+00	-2,47E-02
EP-freshwater ²⁾	kg Pe	2,12E-04	4,33E-06	4,21E-05	2,59E-04	4,40E-06	2,87E-07	MND	1,10E-04	MND	MND	MND	MND	MND	0,00E+00	2,63E-07	1,78E-06	0,00E+00	-2,92E-04
EP-marine	kg Ne	5,48E-03	6,66E-04	2,14E-03	8,29E-03	7,50E-03	6,98E-05	MND	2,27E-03	MND	MND	MND	MND	MND	0,00E+00	4,04E-05	4,87E-04	0,00E+00	-2,96E-03
EP-terrestrial	mol Ne	6,48E-02	7,35E-03	2,17E-02	9,38E-02	8,34E-02	4,21E-04	MND	6,34E-03	MND	MND	MND	MND	MND	0,00E+00	4,46E-04	5,19E-03	0,00E+00	-3,41E-02
POCP (“smog”) ³⁾	kg NMVOCe	1,73E-02	2,35E-03	5,79E-03	2,54E-02	2,17E-02	1,15E-04	MND	1,92E-03	MND	MND	MND	MND	MND	0,00E+00	1,43E-04	1,28E-03	0,00E+00	-9,46E-03
ADP-minerals & metals ⁴⁾	kg Sbe	4,23E-05	1,24E-06	2,57E-06	4,62E-05	1,59E-06	7,40E-08	MND	5,92E-06	MND	MND	MND	MND	MND	0,00E+00	7,53E-08	2,74E-07	0,00E+00	-4,47E-06
ADP-fossil resources	MJ	7,13E+01	7,95E+00	2,29E+01	1,02E+02	1,36E+01	1,48E-01	MND	1,32E+01	MND	MND	MND	MND	MND	0,00E+00	4,82E-01	9,35E-01	0,00E+00	-5,27E+01
Water use ⁵⁾	m ³ e depr.	4,42E+00	3,56E-02	2,68E-01	4,72E+00	4,34E-02	2,67E-02	MND	6,30E-01	MND	MND	MND	MND	MND	0,00E+00	2,16E-03	4,14E-01	0,00E+00	-8,93E-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	4,42E-07	6,10E-08	1,31E-07	6,34E-07	4,44E-08	1,33E-09	MND	3,60E-08	MND	MND	MND	MND	MND	0,00E+00	3,70E-09	1,12E-08	0,00E+00	-1,78E-07
Ionizing radiation ⁶⁾	kBq 11235e	1,88E-01	3,79E-02	3,30E-02	2,59E-01	6,28E-02	9,57E-04	MND	9,35E-02	MND	MND	MND	MND	MND	0,00E+00	2,30E-03	2,80E-03	0,00E+00	-9,07E-01
Ecotoxicity (freshwater)	CTUe	1,31E+02	7,15E+00	5,01E+01	1,88E+02	9,15E+00	3,96E-01	MND	4,39E+01	MND	MND	MND	MND	MND	0,00E+00	4,34E-01	1,71E+00	0,00E+00	-6,40E+01
Human toxicity, cancer	CTUh	1,93E-08	1,76E-10	7,59E-10	2,03E-08	5,96E-10	2,69E-11	MND	1,09E-09	MND	MND	MND	MND	MND	0,00E+00	1,07E-11	2,71E-10	0,00E+00	-1,13E-09
Human tox. non-cancer	CTUh	5,74E-08	7,08E-09	1,86E-08	8,31E-08	6,51E-09	1,01E-09	MND	2,39E-08	MND	MND	MND	MND	MND	0,00E+00	4,29E-10	1,30E-08	0,00E+00	-3,89E-08
SQP ⁷⁾	-	2,79E+02	9,16E+00	3,07E+01	3,19E+02	3,97E+00	1,25E-01	MND	2,13E+00	MND	MND	MND	MND	MND	0,00E+00	5,55E-01	2,81E-01	0,00E+00	-3,87E+01

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

USE OF NATURAL RESOURCES

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Renew. PER as energy ⁸⁾	MJ	8,07E+01	8,96E-02	3,81E+00	8,46E+01	1,02E-01	6,87E-03	MND	7,33E-01	MND	MND	MND	MND	MND	0,00E+00	5,43E-03	3,34E-02	0,00E+00	-1,17E+01
Renew. PER as material	MJ	3,06E+01	0,00E+00	1,88E+00	3,25E+01	0,00E+00	-3,34E+00	MND	0,00E+00	MND	MND	MND	MND	MND	0,00E+00	0,00E+00	-2,91E+01	0,00E+00	1,53E-01
Total use of renew. PER	MJ	1,11E+02	8,96E-02	5,69E+00	1,17E+02	1,02E-01	-3,33E+00	MND	7,33E-01	MND	MND	MND	MND	MND	0,00E+00	5,43E-03	-2,91E+01	0,00E+00	-1,15E+01
Non-re. PER as energy	MJ	6,29E+01	7,95E+00	2,25E+01	9,33E+01	1,36E+01	1,48E-01	MND	8,05E+00	MND	MND	MND	MND	MND	0,00E+00	4,82E-01	9,36E-01	0,00E+00	-5,25E+01
Non-re. PER as material	MJ	8,45E+00	0,00E+00	7,44E-02	8,53E+00	0,00E+00	-4,77E-01	MND	0,00E+00	MND	MND	MND	MND	MND	0,00E+00	0,00E+00	-8,05E+00	0,00E+00	1,71E-01
Total use of non-re. PER	MJ	7,13E+01	7,95E+00	2,26E+01	1,02E+02	1,36E+01	-3,28E-01	MND	8,05E+00	MND	MND	MND	MND	MND	0,00E+00	4,82E-01	-7,11E+00	0,00E+00	-5,24E+01
Secondary materials	kg	1,40E-02	2,21E-03	1,53E-01	1,69E-01	5,84E-03	2,16E-04	MND	4,88E-03	MND	MND	MND	MND	MND	0,00E+00	1,34E-04	1,98E-03	0,00E+00	-8,69E-04
Renew. secondary fuels	MJ	2,06E-01	2,23E-05	5,03E-02	2,56E-01	1,99E-05	9,92E-07	MND	4,59E-05	MND	MND	MND	MND	MND	0,00E+00	1,35E-06	4,63E-06	0,00E+00	-1,90E-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	0,00E+00	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	1,03E-01	1,03E-03	6,29E-03	1,10E-01	1,00E-03	-2,10E-05	MND	1,54E-02	MND	MND	MND	MND	MND	0,00E+00	6,25E-05	-1,24E-03	0,00E+00	-3,99E-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	3,38E-01	1,05E-02	1,98E-01	5,47E-01	1,85E-02	9,54E-04	MND	4,04E-02	MND	MND	MND	MND	MND	0,00E+00	6,39E-04	9,86E-04	0,00E+00	-2,72E-01
Non-hazardous waste	kg	6,10E+00	1,73E-01	1,44E+00	7,72E+00	1,73E-01	4,26E-01	MND	1,34E+00	MND	MND	MND	MND	MND	0,00E+00	1,05E-02	6,18E+00	0,00E+00	-1,63E+01
Radioactive waste	kg	9,38E-05	5,32E-05	1,37E-05	1,61E-04	9,53E-05	4,98E-07	MND	2,96E-05	MND	MND	MND	MND	MND	0,00E+00	3,23E-06	3,02E-07	0,00E+00	-2,89E-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	0,00E+00	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	1,96E-01	MND	0,00E+00	MND	MND	MND	MND	MND	0,00E+00	0,00E+00	6,84E-01	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	3,41E-01	MND	0,00E+00	MND	MND	MND	MND	MND	0,00E+00	0,00E+00	6,16E+00	0,00E+00	0,00E+00
Exported energy	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,37E+00	MND	0,00E+00	MND	MND	MND	MND	MND	0,00E+00	0,00E+00	3,88E+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	B5	B6	B7	C1	C2	C3	C4	D
Global Warming Pot.	kg CO ₂ e	4,51E+00	5,24E-01	2,06E+00	7,10E+00	1,05E+00	4,47E-02	MND	5,05E-01	MND	MND	MND	MND	MND	0,00E+00	3,18E-02	1,00E-01	0,00E+00	-3,52E+00
Ozone depletion Pot.	kg CFC ₁₁ e	3,08E-07	9,65E-08	5,90E-08	4,64E-07	1,69E-07	1,19E-09	MND	4,01E-08	MND	MND	MND	MND	MND	0,00E+00	5,85E-09	5,92E-09	0,00E+00	-1,53E-07
Acidification	kg SO ₂ e	2,29E-02	1,74E-03	7,47E-03	3,21E-02	2,43E-02	7,33E-05	MND	3,01E-03	MND	MND	MND	MND	MND	0,00E+00	1,06E-04	7,52E-04	0,00E+00	-2,11E-02
Eutrophication	kg PO ₄ ³ e	1,35E-02	3,97E-04	1,95E-03	1,58E-02	2,76E-03	3,30E-04	MND	2,26E-03	MND	MND	MND	MND	MND	0,00E+00	2,41E-05	8,33E-04	0,00E+00	-1,02E-02
POCP (“smog”)	kg C ₂ H ₄ e	1,58E-03	6,80E-05	3,35E-04	1,99E-03	6,30E-04	7,00E-06	MND	1,41E-04	MND	MND	MND	MND	MND	0,00E+00	4,12E-06	2,51E-05	0,00E+00	-8,96E-04
ADP-elements	kg Sbe	4,21E-05	1,20E-06	2,42E-06	4,57E-05	1,56E-06	7,12E-08	MND	5,53E-06	MND	MND	MND	MND	MND	0,00E+00	7,29E-08	2,43E-07	0,00E+00	-4,45E-06
ADP-fossil	MJ	7,13E+01	7,95E+00	2,29E+01	1,02E+02	1,36E+01	1,48E-01	MND	1,32E+01	MND	MND	MND	MND	MND	0,00E+00	4,82E-01	9,35E-01	0,00E+00	-5,27E+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 ₂ e	4,65E+00	5,30E-01	2,13E+00	7,31E+00	1,06E+00	2,77E-02	MND	5,18E-01	MND	MND	MND	MND	MND	0,00E+00	3,21E-02	1,05E-01	0,00E+00	-3,58E+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.

Imane Uald Lamkaddam as an authorized verifier for EPD Hub Limited
21.02.2025



ANNEX

LIFE-CYCLE ASSESSMENT INFORMATION

Product type	Mass per m2 (kg)	GWP total for modules A1-A3 (kg CO2 eq.)	GWP fossil for modules A1-A3 (kg CO2 eq.)	GWP fossil for modules A1-A3 (kg CO2 eq.)
6mm ECF flooring with 2mm Cork backing	7.2	-4.13	7.3	-11.4
8mm ECF flooring with 2mm Cork backing	9.2	-6.53	8.16	-14.7
Variation		-37%	-11%	-22%