

Environmental Product Declaration


INTERNATIONAL EPD SYSTEM



In accordance with ISO 14025:2006 and EN 15804:2012+A2:2019/AC:2021 for:

Extruded aluminium profile

Alloys 6060, 6060S, 6063, 6082, 6005A, 1050

from

Tecnoal S.r.l



Environmental Product Declaration

Programme:	The International EPD System, www.environdec.com
Programme operator:	EPD International AB
Type of EPD:	"EPD of multiple products, based on the average results of the product group"
EPD registration number:	EPD-IES-0026622:001
Version date:	2025-10-14
Validity date:	2030-10-13
<i>An EPD may be updated or depublished if conditions change. To find the latest version of the EPD and to confirm its validity, see www.environdec.com</i>	

The statements included in the EPD declaration are compliance with ISO 14025, EN 15804:2012+A2:2019/AC:2021, ISO 14067 and 14026.



GENERAL INFORMATION

Programme Information	
Programme:	The International EPD® System
Address:	EPD International AB Box 210 60 SE-100 31 Stockholm Sweden
Website:	www.environdec.com
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Product Category Rules (PCR)
CEN standard EN 15804:2012+A2:2019/AC:2021 serves as the Core Product Category Rules (PCR).
Product Category Rules (PCR): PCR 2019:14 Construction Products, Version 2.0.1 (2025-06-05),
PCR review was conducted by: <i>Rob Rouwette (chair) and Noa Meron (co-chair), Technical Committee of the International EPD System (review dates: 2025-01-28 to 2025-03-12). Contact via the Programme Operator: EPD International AB – support@environdec.com.</i>

Third-party Verification
Independent third-party verification of the declaration and data, according to ISO 14025:2006, via:
☒ Individual EPD verification without a pre-verified LCA/EPD tool Third-party verifier: <i>Bureau Veritas Italia S.p.A</i> Accredited by: <i>Accredia, Accreditation number 00031</i>
Procedure for follow-up of data during EPD validity involves third party verifier:
☒ Yes ☐ No

The EPD owner has the sole ownership, liability, and responsibility for the EPD.

EPDs within the same product category but published in different EPD programmes, may not be comparable. For two EPDs to be comparable, they shall be based on the same PCR (including the same first-digit version number) or be based on fully aligned PCRs or versions of PCRs; cover products with identical functions, technical performances and use (e.g. identical declared/functional units); have identical scope in terms of included life-cycle stages (unless the excluded life-cycle stage is demonstrated to be insignificant); apply identical impact assessment methods (including the same version of characterisation factors); and be valid at the time of comparison. For further information about comparability, see EN 15804 and ISO 14025.

INFORMATION ABOUT EPD OWNER

Owner of the EPD: Tecnoal S.r.l.

Address: Via Ausa 70 - 47853 Cerasolo di Coriano (RN)

Contact: **Roberta Piccinini** –Head of Quality and Environment | Email: robertapiccinini@tecnoalsrl.com

Address and contact information of the LCA practitioner commissioned by the EPD owner, if applicable: **Luca Pollarini, Margotta S.r.l., l.pollarini@margo.it**

Description of the organisation:

The organisation is constituted by an headquarter and two different productive plants which carried out specific processes in relation to the product system.

The productive plant considered in the EPD declaration is the one situated in Via delle Querce, 6 - 61040 Sant'Ippolito (PU), where the extrusion process on aluminium billets is carried out.

Product-related or management system-related certifications: the company has already implemented and certified an Environmental Management System 14001:2015, and a Quality Management System 9001:2015, that cover all the processes and plants included in the EPD declaration.

The products are verified for EN 755 and EN 573

Another product related certification is the Marchio Qualanod, issued by QUALITAL, the Institute for Industrial Certification of Aluminium, that defines the quality requirements for the products and the conformity requirements for the oxidation implant.

The continuous vigilance on the compliance of both plants and processes is ensured by TUV Italia.

<https://www.tecnoalsrl.com/certificazioni/9/>

Target group of the EPD declaration: the EPD is issued toward B2B's stakeholders

PRODUCT INFORMATION

Product name: Extruded Aluminium Profile

Product identification: The product is an extruded aluminium profile, thin and with a variable internal geometry, that can go from one to more than three meters long.

Products covered in this EPD:

- Profile extruded from 6060 alloy
- Profile extruded from 6060S alloy
- Profile extruded from 6063 alloy
- Profile extruded from 6082 alloy
- Profile extruded from 6005A alloy
- Profile extruded from 1050 alloy

Visual representation (e.g., an image) of the product: the image represents one of the many internal geometries that an extruded profile can have.



UN CPC code: 415.

Product description: The mean extruded aluminium profiles can be used in the most various application, as for infixes or mechanical supports, from heat dissipation to the naval industry, through electronics, automotive, and aerospace industries.

The production process is constituted by a mechanical deformation inducted to a heated aluminium billet through an extrusion die.

The process is performed under extreme pressure and grants precision in the internal geometry and stable mechanical properties all along the profile, minus the very head and tail, that are cut off from the profile.

After an aging process conducted with ovens, the extruded profile is ready to be packaged and sent to customer of other production processes outside the EPD Declaration

Is important to note that aluminium profiles can't bear weight or resist to mechanical excessive solicitation, given its use mostly for the final step of the construction process.

There is no determined End of Life date because usually the profile is removed while the demolition of the building, so the lifespan of a simple extruded profile can sum up to centuries.

The density of the material is 2700 Kg/cubic meter, making it an ideal solution for light coverage of electrical panels, aesthetic additions and windows fixtures.



Name and location of production site(s):

Extrusion plant: Via delle Querce, 6 - 61040 Sant'Ippolito (PU)

<https://www.tecnoalsrl.com/>

CONTENT DECLARATION

The mass (weight) of one unit of a product, as purchased or per declared unit: the declared unit of product is 1,0 Kg of extruded aluminium profile.

Content of the product in the form of a list of materials and substances, and their mass:

The weighted average of the billets bought by the organisation brings to the alloy used for the calculations:

	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Impurities	Al
Average Alloy	0,617	0,301	0,098	0,111	0,601	0,055	0,146	0,098	0,148	97,834

Given that the EPD is a declaration of an average product, based on the average homogeneous production of Tecnoal S.r.l., it's important to note that the share of recycled content declared, as well as the relative weigh of the alloys on 1Kg of product, is an average based on the billets purchased in the year 2024:

Product content	Mass, kg	Post-consumer recycled material, mass-% of product	Biogenic material, mass-% of product	Biogenic material, kg C/product or declared unit
Aluminium alloy 6060	0,554	5,74%	0	0
Aluminium alloy 6060S	0,318	26,46%	0	0
Aluminium alloy 6005A	0,048	0,00%	0	0
Aluminium alloy 6063	0,048	27,98%	0	0
Aluminium alloy 6082	0,017	19,15%	0	0
Aluminium alloy 1050	0,016	0,00%	0	0
TOTAL	1,00	13,24%	0	0

Packaging materials	Weight, kg	Weight-% (versus the product)	Biogenic material, kg C/product or declared unit
Smooth Craft paper h. 75	0,007	0,7%	0,003
Stuffed Carboard angles	0,005	0,5%	0,002
Micro punctured Polyethylene Coils H62	0,001	0,1%	-
Straps of cardboard	0,001	0,1%	0,003
TOTAL	0,014	1,4%	0,01

1 kg biogenic carbon in the product/packaging is equivalent to the uptake of 44/12 kg of CO₂.

Hazardous substances from the candidate list of SVHC	EC No.	CAS No.	Mass-% per product or declared unit
None present above 0.1% by weight	-	-	-

LCA INFORMATION

Declared unit: 1 Kg of extruded aluminium profile

Reference service life: not applicable

Time representativeness: Data are representative of year 2024.

Geographical scope:

- Modules A1–A3 (raw material supply, transport, manufacturing): IT.
- Modules C1–C4 (end-of-life): EU27 waste treatment and recycling practices.
- Module D (benefits beyond the system boundary): EU27.

Database(s) and LCA software used: All secondary data from Ecoinvent v3.11 (cut-off), in compliance with EN 15804. Modelling carried out with SimaPro v10.2.0.2 and Microsoft Excel.

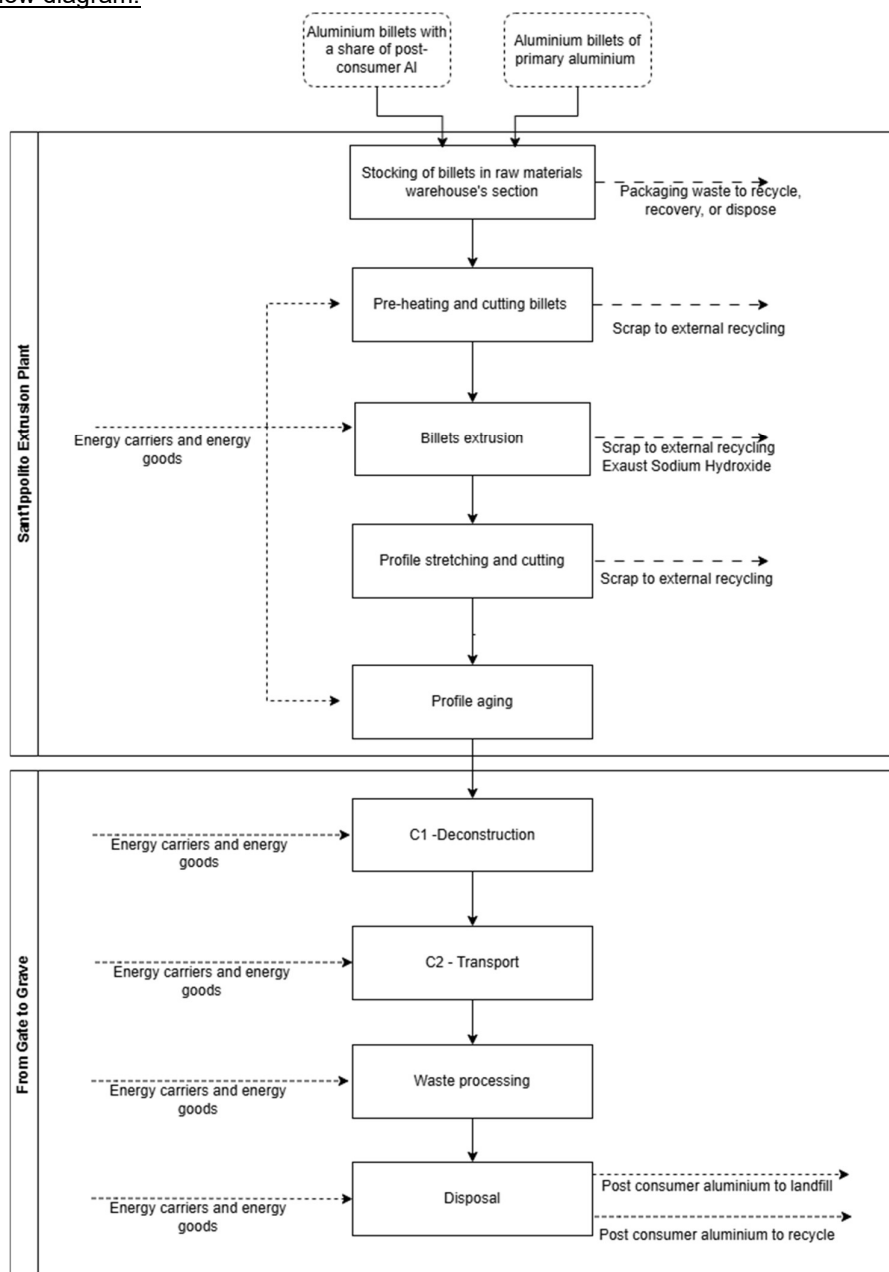
EPD/LCA Tool used: *SimaPro v10.2.0.2.*

Description of system boundaries:

Cradle to gate with options, modules A1–A3, C1-C4 + D

In accordance with EN 15804:2012+A2:2019 and PCR 2019:14.

Process' flow diagram:



More information:

Allocation procedures

Allocation follows the requirements of PCR 2019:14 (Section 4.5.3) and EN 15804:2012+A2:2019, applying the cut-off method.

There is a share of post consumers recycled materials in the alloy of the purchased billets.

The allocation method used for the EPD declaration is the **mass allocation process**.

Recycling credits are reported in Module D for materials recovered at the end of life.

Data sources, reference years, and share of primary data

- Reference year for primary data: 2024.
- Database: Ecoinvent v3.11 (cut-off).
- LCA software: SimaPro v10.2.0.2.
- Primary data coverage A1-A3: **25%**

Data quality assessment

The quality of the datasets has been assessed in accordance with EN 15941 and PCR 2019:14 (v.2.0.1, June 2025, Section 4.6.4). The evaluation covers geographical, temporal, and technological representativeness, as well as precision, completeness, and consistency. Primary data were collected from the production plants of Tecnoal S.r.l. for the reference year 2024, while secondary data were sourced from Ecoinvent v3.11 (cut-off system model).

No proxy data were used.

The following table, prepared in line with the template provided in PCR 2019:14, reports the data quality assessment for modules A1–A3.

Process	Source type	Source	Reference year	Data category	Share of primary data, of GWP-GHG results for A1-A3
Manufacturing of product	Collected data	EPD owner	2024	Primary data	6%
Generation of electricity used in manufacturing of product	Collected data	EPD owner	2024	Primary data	5%
Transport of raw materials to manufacturing site	Collected data	EPD owner	2024	Primary data	2%
Aluminium production from suppliers with an EPD	Collected data	EPD owner	2024	Primary data	11%
Aluminium production from suppliers without an EPD	Database	Ecoinvent v3.11	2024	Secondary data	0%
Production of other materials from in-house manufacturing processes	Database	Ecoinvent v3.11	2024	Secondary data	0%
Production of packaging	Database	Ecoinvent v3.11	2024	Secondary data	0%

Total share of primary data, of GWP-GHG results for A1-A3

25%

Infrastructures and capital goods

In line with PCR Section 4.3.6, infrastructure and capital goods (e.g. buildings, machinery, vehicles) are not included. Electricity datasets in A3 include upstream burdens for power plant construction, as required by EN 15804.

Climate impact of purchased electricity in A3

Electricity used in A3 is for the 90,5% purchased from the National Network, while the 9,5% from on-site photovoltaic generation.

Electricity, low voltage {IT} | electricity production, photovoltaic, 3kWp slanted-roof installation, multi-Si, panel, mounted | Cut-off, U (of project Ecoinvent 3 - allocation, cut-off by classification - unit): 2,13E-6 KgCO₂eq/Kwh

Electricity, medium voltage {IT} | electricity, medium voltage, residual mix | Cut-off, U (of project Ecoinvent 3 - allocation, cut-off by classification - unit): 0,658 KgCO₂eq/Kwh

Share of primary data in A1–A3

Primary data collected at Tecnoal S.r.l. account for approximately 25% of the declared GWP-GHG results of A1–A3. Secondary data are used exclusively for the upstream production of purchased materials and components, as well as external transport processes.

Downstream scenarios (C, D)

- **C1 – Deconstruction:** the dismantling is assumed to be manual, with an associated fuel consumption for electrical instruments powered by mobile generators, made prior to the demolition or renewal or demolition of the building
- **C2 – Transport:** Dismantled components are transported to the treatment facility over a distance of 80 km by 16-32 lorry (EURO 5), consistent with the default value recommended by the PCR for non-incineration scenarios.
- **C3 – Waste processing:** The aluminium is, from literature, recyclable to the 95% of its mass. The activities, the consumption of resources and the processes used for the evaluation of the impacts are: “Loading and unloading at sorting facility” for 1,8KWh/t of diesel, modelled with “Diesel, burned in building machine {GLO} | diesel, burned in building machine | Cut-off, U”; “Mechanical sorting” for 2,2 KWh/t modelled based on the area of scenario “80%*(Electricity, medium voltage {IT} | market for electricity, medium voltage | Cut-off, U)+20%*(Electricity, medium voltage {RER} | market group for electricity, medium voltage | Cut-off, U)”; “Fragging of steel” for 7,4KWh/t of diesel, modelled with “Diesel, burned in building machine {GLO} | diesel, burned in building machine | Cut-off, U”
- **C4 – Disposal:** of the total product weight (1 kg), 0,95 kg (95%) are sent to recycling, while 0.05 kg (5%) are landfilled. The non-recyclable share (purely based on literature assumptions) are assumed to be disposed of in sanitary landfill. *Waste aluminium {CH} | treatment of waste aluminium, sanitary landfill | Cut-off, U*
- **D – Benefits and loads beyond the system boundary:** Module D accounts for the avoided burdens from substitution of virgin raw materials thanks to the recycling of approx. 0,95kg/Kg of product components. The environmental benefit are calculated at the point of substitution and

reported separately. The post-consumer aluminium quantity that enters the system in A1 has been subtracted from the result.

Characterisation methods

Impact indicators have been calculated in accordance with EN 15804:2012+A2:2019, using the EN 15804 + A2 (adapted) characterisation method as implemented in SimaPro v10.2.0.2. This method is aligned with the Environmental Footprint (EF) 3.1 method (July 2022)

Modules declared, geographical scope, share of primary data (in GWP-GHG results) and data variation (in GWP-GHG results):

	Product stage			Distribution/ installation stage		Use stage							End-of-life stage				Beyond product life cycle
	Raw material supply	Transport	Manufacturing	Transport	Construction installation	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	De-construction demolition	Transport	Waste processing	Disposal	Reuse-Recovery-Recycling- potential
Module	A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Modules declared	X	X	X	ND	ND	ND	ND	ND	ND	ND	ND	ND	X	X	X	X	X
Geography	EU27	EU27	IT	-	-	-	-	-	-	-	-	-	EU27	EU27	EU27	EU27	EU27
Share of primary data	25%			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Variation – products	>10%			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Variation – sites	-			-	-	-	-	-	-	-	-	-	-	-	-	-	-
The variation (max – mean) between products (A1-A3 modules) for the GWP-GHG Indicator is 11,27%																	
The variation between product for each indicator is																	
GWP-fossil – 10,75% GWP-biogenic – 41,54% GWP-luluc – 64,76% ODP – 47,84% AP – 21,23% EP-freshwater – 61,56% EP-marine – 10,82% EP-terrestrial – 6,84% POCP – 22,02% ADP-minerals&metals – 137,88% ADP-fossil* - 12,33% WDP – 31,31%																	

The share of primary data is calculated based on GWP-GHG results. It is a simplified indicator for data quality that supports the use of more primary data, to increase the representativeness of and comparability between EPDs. Note that the indicator does not capture all relevant aspects of data quality and is not comparable across product categories.

ENVIRONMENTAL PERFORMANCE

LCA results of the product - main environmental performance results

The environmental performance of the declared unit is assessed in accordance with PCR 2019:14, version 2.0.1. The life cycle impact assessment (LCIA) indicators and additional environmental information are reported in the following tables, expressed per declared unit and disaggregated by life cycle module.

Mandatory impact category indicators according to EN 15804

Results per one kg							
Indicator	Unit	A1-A3	C1	C2	C3	C4	D
GWP-total	kg CO ₂ eq.	9,74E+00	3,75E-04	1,23E-02	3,79E-03	7,48E-04	-4,51E+00
GWP-fossil	kg CO ₂ eq.	9,62E+00	3,75E-04	1,23E-02	3,83E-03	7,50E-04	-4,37E+00
GWP-biogenic	kg CO ₂ eq.	2,66E-02	1,88E-08	4,26E-07	1,78E-06	3,86E-07	-1,87E-02
GWP-luluc	kg CO ₂ eq.	8,78E-02	1,54E-08	1,94E-07	2,23E-06	9,83E-08	-1,26E-01
ODP	kg CFC 11 eq.	8,93E-08	5,70E-12	2,79E-10	5,82E-11	2,02E-11	-7,40E-08
AP	mol H ⁺ eq.	5,91E-02	3,46E-06	3,17E-05	3,23E-05	3,99E-06	-2,93E-02
EP-freshwater	kg P eq.	2,29E-03	3,13E-09	6,31E-08	6,73E-07	4,98E-08	-2,68E-03
EP-marine	kg N eq.	9,12E-03	1,63E-06	1,21E-05	1,42E-05	1,89E-06	-3,52E-03
EP-terrestrial	mol N eq.	9,40E-02	1,79E-05	1,32E-04	1,55E-04	1,84E-05	-3,27E-02
POCP	kg NMVOC eq.	3,11E-02	5,34E-06	5,24E-05	4,62E-05	6,21E-06	-1,54E-02
ADP-minerals&metals*	kg Sb eq.	6,64E-06	1,31E-11	3,20E-10	1,56E-10	2,64E-10	8,20E-05
ADP-fossil*	MJ	1,22E+02	4,90E-03	1,63E-01	5,75E-02	1,59E-02	-7,27E+01
WDP*	m ³	1,60E+00	3,66E-06	5,33E-05	1,80E-04	2,13E-04	4,38E-01
Acronyms	GWP-fossil = Global Warming Potential fossil fuels; GWP-biogenic = Global Warming Potential biogenic; GWP-luluc = Global Warming Potential land use and land use change; ODP = Depletion potential of the stratospheric ozone layer; AP = Acidification potential, Accumulated Exceedance; EP-freshwater = Eutrophication potential, fraction of nutrients reaching freshwater end compartment; EP-marine = Eutrophication potential, fraction of nutrients reaching marine end compartment; EP-terrestrial = Eutrophication potential, Accumulated Exceedance; POCP = Formation potential of tropospheric ozone; ADP-minerals&metals = Abiotic depletion potential for non-fossil resources; ADP-fossil = Abiotic depletion for fossil resources potential; WDP = Water (user) deprivation potential, deprivation-weighted water consumption						

* Disclaimer: The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high or as there is limited experience with the indicator.

Disclaimer: The estimated impact results are only relative statements, which do not indicate the endpoints of the impact categories, exceeding threshold values, safety margins and/or risks.

Disclaimer: The results of the end-of-life stage (modules C1-C4) should be considered when using the results of the product stage (modules A1-A3).

Biogenic carbon in packaging have been balanced out already in modules A1-A3

Additional indicators

Results per one kg							
Indicator	Unit	A1-A3	C1	C2	C3	C4	D
GWP-GHG ¹	kg CO ₂ eq.	9,74E+00	3,75E-04	1,23E-02	3,79E-03	7,48E-04	-4,51E+00

1 This indicator accounts for all greenhouse gases except biogenic carbon dioxide uptake and emissions and biogenic carbon stored in the product. As such, the indicator is identical to GWP-total except that the CF for biogenic Others additional indicators are reported

Resource use indicators

Results per one kg							
Indicator	Unit	A1-A3	C1	C2	C3	C4	D
PERE	MJ	2,45E+01	0,00E+00	4,01E-04	3,79E-03	1,57E-03	-3,21E+01
PERM	MJ	7,12E-01	0,00E+00	4,11E-05	4,87E-04	5,33E-05	1,01E-01
PERT	MJ	2,53E+01	0,00E+00	4,42E-04	4,27E-03	1,62E-03	-3,20E+01
PENRE	MJ	9,63E+01	0,00E+00	1,63E-01	5,75E-02	1,59E-02	-7,27E+01
PENRM	MJ	1,19E-02	0,00E+00	2,95E-07	3,24E-05	2,94E-06	1,59E-03
PENRT	MJ	9,63E+01	0,00E+00	1,63E-01	5,75E-02	1,59E-02	-7,27E+01
SM	kg	3,71E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
RSF	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
NRSF	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
FW	m3	1,31E+01	0,00E+00	5,21E-05	1,79E-04	1,32E-04	3,46E-01
Acronyms	PERE = Use of renewable primary energy excluding renewable primary energy resources used as raw materials; PERM = Use of renewable primary energy resources used as raw materials; PERT = Total use of renewable primary energy resources; PENRE = Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials; PENRM = Use of non-renewable primary energy resources used as raw materials; PENRT = Total use of non-renewable primary energy re-sources; SM = Use of secondary material; RSF = Use of renewable secondary fuels; NRSF = Use of non-renewable secondary fuels; FW = Use of net fresh water						

Waste indicators

Results per one kg							
Indicator	Unit	A1-A3	C1	C2	C3	C4	D
Hazardous waste disposed	kg	1,71E-01	4,31E-06	7,97E-06	3,62E-05	3,62E-06	6,78E-03
Non-hazardous waste disposed	kg	5,51E-01	2,00E-07	6,70E-06	1,55E-05	5,82E-02	1,36E-01
Radioactive waste disposed	kg	2,56E-04	2,29E-10	9,84E-09	1,24E-07	2,39E-08	-3,66E-04

Output flow indicators

Results per one kg							
Indicator	Unit	A1-A3	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
Material for recycling	kg	3,82E-03	0,00E+00	0,00E+00	0,95E+00	0,00E+00	0,00E+00
Materials for energy recovery	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Exported energy, electricity	MJ	4,66E-05	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Exported energy, thermal	MJ	8,34E-05	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00

Additional LCA results

In accordance with the PCR requirements, 100% product end-of-life scenarios (100% landfill and 100% recycling) have been modelled. Since all other life-cycle stages remain unchanged, only the results for modules C4 and D are reported, covering all mandatory impact indicators defined in EN 15804. The results reflect only the product.

Additional LCA results for 100% landfill scenario

Indicator	Unit	C4	D
GWP-total	kg CO ₂ eq.	1,50E-02	0,00E+00
GWP-fossil	kg CO ₂ eq.	1,50E-02	0,00E+00
GWP-biogenic	kg CO ₂ eq.	7,73E-06	0,00E+00
GWP-luluc	kg CO ₂ eq.	1,97E-06	0,00E+00
ODP	kg CFC 11 eq.	4,04E-10	0,00E+00
AP	mol H ⁺ eq.	7,98E-05	0,00E+00
EP-freshwater	kg P eq.	9,96E-07	0,00E+00
EP-marine	kg N eq.	3,78E-05	0,00E+00
EP-terrestrial	mol N eq.	3,67E-04	0,00E+00
POCP	kg NMVOC eq.	1,24E-04	0,00E+00
ADP-minerals&metals*	kg Sb eq.	3,17E-01	0,00E+00
ADP-fossil*	MJ	5,28E-09	0,00E+00
WDP*	m ³	-4,25E-03	0,00E+00

Additional LCA results for 100% recycling scenario

Indicator	Unit	C4	D
GWP-total	kg CO ₂ eq.	0,00E+00	-4,79E+00
GWP-fossil	kg CO ₂ eq.	0,00E+00	-4,64E+00
GWP-biogenic	kg CO ₂ eq.	0,00E+00	-1,98E-02
GWP-luluc	kg CO ₂ eq.	0,00E+00	-1,34E-01
ODP	kg CFC 11 eq.	0,00E+00	-7,86E-08
AP	mol H ⁺ eq.	0,00E+00	-3,11E-02
EP-freshwater	kg P eq.	0,00E+00	-2,84E-03
EP-marine	kg N eq.	0,00E+00	-3,73E-03
EP-terrestrial	mol N eq.	0,00E+00	-3,47E-02
POCP	kg NMVOC eq.	0,00E+00	-1,64E-02
ADP-minerals&metals*	kg Sb eq.	0,00E+00	-7,71E+01
ADP-fossil*	MJ	0,00E+00	8,70E-05
WDP*	m ³	0,00E+00	4,65E-01

ABBREVIATIONS

Abbreviation	Definition
General Abbreviations	
EN	European Norm (Standard)
EF	Environmental Footprint
GPI	General Programme Instructions
ISO	International Organization for Standardization
CEN	European Committee for Standardization
CPC	Central product classification
SVHC	Substances of Very High Concern

ND	Not Declared
RSL	Reference Service Life
GO	Guarantee of Origin (electricity certification)
LCA	Life Cycle Assessment
LCI	Life Cycle Inventory
LCIA	Life Cycle Impact Assessment
BOM	Bill of Materials
EPD	Environmental Product Declaration
PCR	Product Category Rules
EU27	European Union, 27 Member States
IPCC	Intergovernmental Panel on Climate Change
AR6	Sixth Assessment Report (IPCC, 2021)

REFERENCES

EN 15804:2012+A2:2019/AC:2021 – Sustainability of construction works – Environmental product declarations – Core rules for the product category of construction products.

GPI – General Programme Instructions for the International EPD® System, Version 5.0.1, published 2025-02-27. www.environdec.com.

PCR for Construction Products and Construction Services – PCR 2019:14 Construction products (EN 15804:A2), Version 2.0.1. www.environdec.com.

ISO 14025:2009 – Environmental labels and declarations – Type III environmental declarations – Principles and procedures.

ISO 14040:2006/Amd 1:2020 – Environmental management – Life cycle assessment – Principles and framework.

ISO 14044:2006/Amd 1:2020 – Environmental management – Life cycle assessment – Requirements and guidelines.

ISO 14020:2000 – Environmental labels and declarations – General principles.

The International EPD System – The International EPD® System is a programme for type III environmental declarations, maintaining a system to verify and register EPDs as well as keeping a library of EPDs and PCRs in accordance with ISO 14025. www.environdec.com.

VERSION HISTORY

Original Version of the EPD, 2025-10-14

