Environmental Product Declaration

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

Briklok Aluminium System profiles

from

RJ Facades Systems Ltd

EPD for multiple products based on representative product. This serves as a trader EPD.

Programme:	The International EPD® System, www.environdec.com
Programme operator:	EPD International AB
EPD registration number:	EPD-IES-0024076
Publication date:	2025-06-13
Valid until:	2030-06-12

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
E-mail:	info@environdec.com

Accountabilities for PCR, LCA and independent, third-party verification
Product Category Rules (PCR)
CEN standard EN 15804 serves as the Core Product Category Rules (PCR)
Product Category Rules (PCR): Product Category Rules (PCR): PCR 2019:14 Construction products, version 1.3.4., Construction EN 15804:2012+A2:2019/AC:2021 Sustainability of Construction Works.
PCR review was conducted by: Technical Committee of the International EPD® System. Review chair: Claudia A. Peña, University of Concepción, Chile. The review panel may be contacted via the Secretariat www.environdec.com/contact.
Life Cycle Assessment (LCA)
LCA accountability: Stephen Forson, ViridisPride Ltd, s.forson@viridispride.com
Third-party verification
Independent third-party verification of the declaration and data, according to ISO 14025:2006, via: ☒ EPD verification by individual verifier Third-party verifier: Vijay Thakur Approved by: The International EPD® System
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 registered in different EPD programmes, or not compliant with EN 15804, may not be comparable. For two EPDs to be comparable, they must be based on the same PCR (including the same 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 equivalent system boundaries and descriptions of data; apply equivalent data quality requirements, methods of data collection, and allocation methods; apply identical cut-off rules and impact assessment methods (including the same version of characterisation factors); have equivalent content declarations; and be valid at the time of comparison. For further information about comparability, see EN 15804 and ISO 14025.

Company information

The new briklok™ system from RJ Facade Systems, introduces a strength of backing support wall for brick slips, new to ventilated facades.

The new patented briklok™ system is a unique interlocking design that creates a solid aluminium inner cavity, supporting simple, tested cavity barrier installation. The briklok design creates the possibilities of the off-site fabrication of columns, and corner returns creating improved, reduced site time of the installation of complicated architectural detailing.

The support structure is as critical as the decorative element of the facade. Briklok incorporates a market leading tried and tested EVT II substructure. Since 2010 RJ Facades has partnered architects, designers and contractors, providing access to structural calculations and support from RJ engineers and designers. We have designed and supplied support systems for all the facade materials used in ventilated facades, partnered with the market leading facade contractors, and worked on award winning projects.

The development of Briklok came from our mission to listen and design facade systems to our customers' need and requirement to support them in the construction of ventilated facade systems. Concepting and designing a brick slip system offering greater integration to other elements of the building, while incorporating the requirement of modern building design.

RJ aluminium systems, designed, engineered & manufactured in UK where we single source all our aluminium extrusions from Hydro UK. High performing facade substructure products exclusively made in the UK from Hydro low carbon 4.0 aluminium in 6060T6 grade. from where we fabricate and warehouse locally for delivery to your project. RJ's goal is to provide the construction industry with the lowest carbon aluminium systems available in the UK.

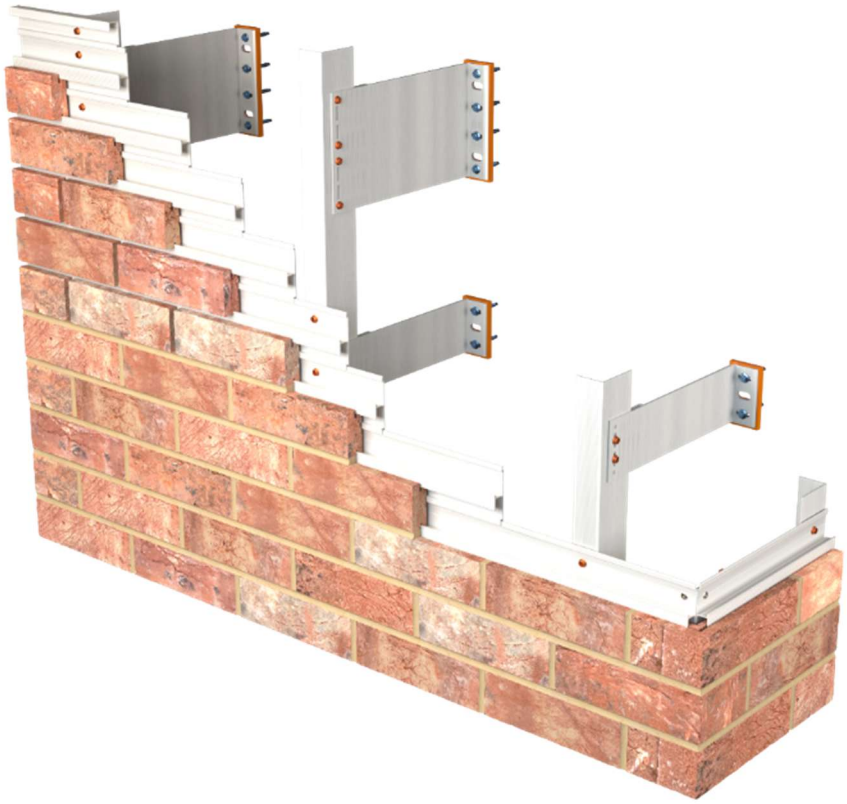
Hydro 4.0 aluminium is high performance 6063T6 aluminium made from 44% recycled, post-consumer scrap. Pushing the boundaries for high-quality recycled, Hydro Recycled Low-Carbon Aluminium 4.0 program is Hydro's brand of recycled aluminium made with 44% recycled, post-consumer aluminium scrap. Using recycled aluminium, drastically reduces energy use in the production phase whilst still offering high-quality aluminium. Using recycled aluminium in the production process means that only 5% of the energy is used compared to primary Aluminium This energy usually contributes to CO2 levels in the atmosphere, so by reducing the amount of energy required to create the material, we're proactively doing our bit to reduce climate change.

Briklok system is UKAS accredited, NHBC accepted UL certification, A1 Fire rated by Warrington, & CWCT Sequence B Tested approved. The approvals cover all elements of the facade system, including elements such as material specification, facade design to relevant Eurocode, and traceability through the RJ manufacturers and relevant supply chain.

Our mission is to support all projects from the initial facade calculation in the design office, through to supporting the site team with on site training. Support services include; structural facade calculations, wind load calculations, thermal calculations, CAD support, site testing, site training & CPD seminars.

Product information

Product name	Briklok Aluminium System profiles
Product identification	UKAS certification number R41245-1
Product description	Sample for EPD purposes analyses Briklok S Mid Profile Anodised Briklok profiles are made from aluminium, providing the timeless aesthetic appeal of brick in Highrise applications and offers architects and developers almost limitless options when it comes to design and finish. The system has been tested with CWCT sequence B, with UKAS accreditation by UL, NHBC approved method of certification, Warrington A1 fire rated.
UN CPC code	41532 Bars, rods and profiles, of aluminium
Geographical scope	Manufacturing is in United Kingdom (A1- A3, A4, A5, C1-C4 and D)



Technical Specification

The technical specifications for this product based on BS EN 10903:2008 and Euro code 3 – Part 1. The *Briklok S Mid Profile Anodised* is used as a representative sample from the below range of similar products.

Code	*Description*
167393	Briklok MJ Profile Anodised (3.0m Length)
167379	Briklok S Upper Profile Anodised (3.0m Length)
167421	Briklok XL Upper Profile Anodised (3.0m Length)
167380	Briklok S Mid Profile Anodised (3.0m Length)
167420	Briklok XL Mid Profile Anodised (3.0m Length)
167391	Briklok Soldier Spacer (3.0m Length)
167381	Briklok Lower Profile Anodised (3.0m Length)

System Boundaries & Description

A1 Raw Materials Supply

The raw material stage (A1) involves the extraction, processing, and transportation of the primary materials used in the production of bracket. The primary materials used are aluminium, thermal pad, and packaging materials.

A2 Transportation

The transportation stage (A2) covers the movement of raw materials from their extraction or production sites to the manufacturing facility. This includes the transportation of the raw materials. The environmental impact of this stage is influenced by the mode of transportation used (e.g., truck, sea), the distance travelled, and the fuel efficiency of the transport vehicles.

Transportation Mode	Type
Road	Vehicle: Lorry
	Size class: 16>32 metric ton
	Emission Standard: Euro6
	Fuel Type: Diesel

Table 2: Transportation Information

A3 Manufacturing

For the T/L profiles and anodised profiles, the products are shipped directly to the distribution centres therefore no manufacturing needed.

Electricity Information	Description
Geographical representativeness description	Energy split for GB Coal 1.17% Oil 1.17% Hydro 1.89.5% Biomass 10.90% Solar PV 5.06% Wind 30.01% Nuclear 13.55% Gas 35.08% Oil 0.79% Unspecified 1.54%
Type of dataset	Cradle to gate, Ecoinvent
Source	AIB (Association of Issuing Bodies) 2023
CO2 emission kg CO2 eq./kWh	0.435

Table 3: Source of Electricity

A4 Transportation

The finished products from Hydro are sent to RJ Façade distribution warehouse in Bathgate before distributed locally. See below for more information. The impacts for transportation were modelled based on the share of impacts from both local and exported products using a distance-based allocation method for all products.

Transportation Mode	Type
Road	Vehicle: Lorry
	Size class: 16>32 metric ton
	Emission Standard: Euro5
	Fuel Type: Diesel
Distance/km	793km
Capacity Utilisation %	61% Dataset default value

Table 4: Distribution Information

A5 Packaging Disposal

The construction phase includes the disposal of the packaging materials and Installation of the products. This account for 100% landfill of packaging materials. The average energy required during installation is 1.4Wh. C1 Deconstruction
This stage includes the deconstruction of the products using a battery powered drill at 1.4Wh. C2 Transportation:
This represents the transportation of the product to waste processing and disposal site. The assumption used for this stage is 50km.

Transportation Mode (Disposal)	Type
Road	Vehicle: Lorry
	Size class: 16>32 metric ton
	Emission Standard: Euro6
	Fuel Type: Diesel
Distance	50km
Mass of packaging (kg)	4.22E-03 kg
Disposal Route	100% Landfill

Table 5: End-of-Life Packaging

C1 Deconstruction

This stage includes the deconstruction of the products using a battery powered drill at 1.4Wh.

C2 Transportation

This represents the transportation of the product to waste processing and disposal site. The assumption used for this stage is 50km.

Transportation Mode	Type
Road	Vehicle: Lorry
	Size class: 16>32 metric ton
	Emission Standard: Euro6
	Fuel Type: Diesel

Table 6: Transportation Information

C3 Waste Processing

This represents the scenario for treatment of the aluminium and thermal pads. For the thermal pads, 100% incineration has been chosen for the plastics. And for the aluminium, a collection rate of 96% has been assumed with 95% of collected products recycled and 5% lost.

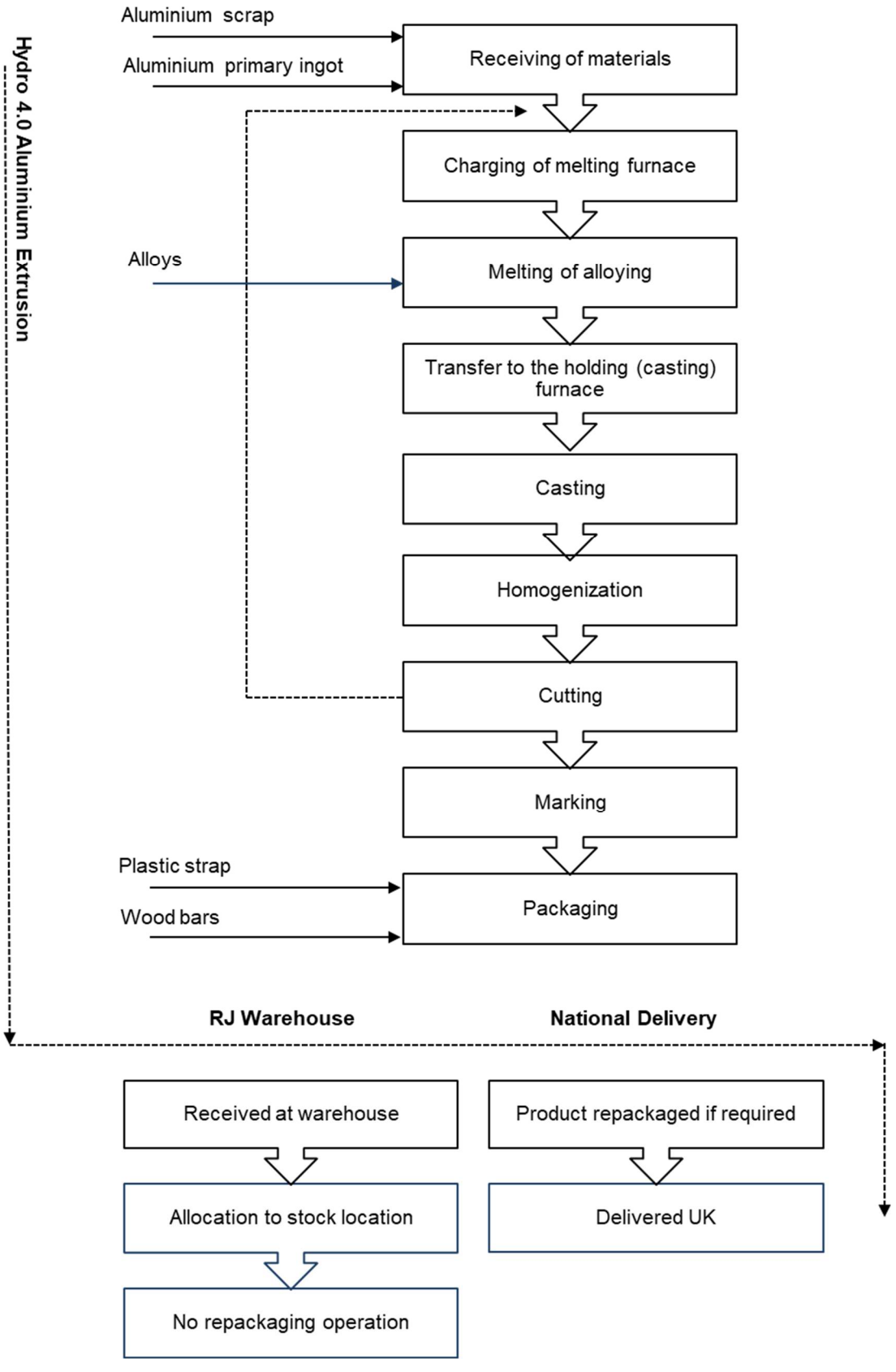
Transportation Mode (Disposal)	Type
Road	Vehicle: Lorry
	Size class: 16>32 metric ton
	Emission Standard: Euro6
	Fuel Type: Diesel
Distance	50km
Mass of product (kg)	9.12E-01kg (Aluminium)
Disposal Route	Recycling

Table 7: End of Life of Product

D Benefit and Load

The benefits of the recycling of alumnium is accounted for in module D

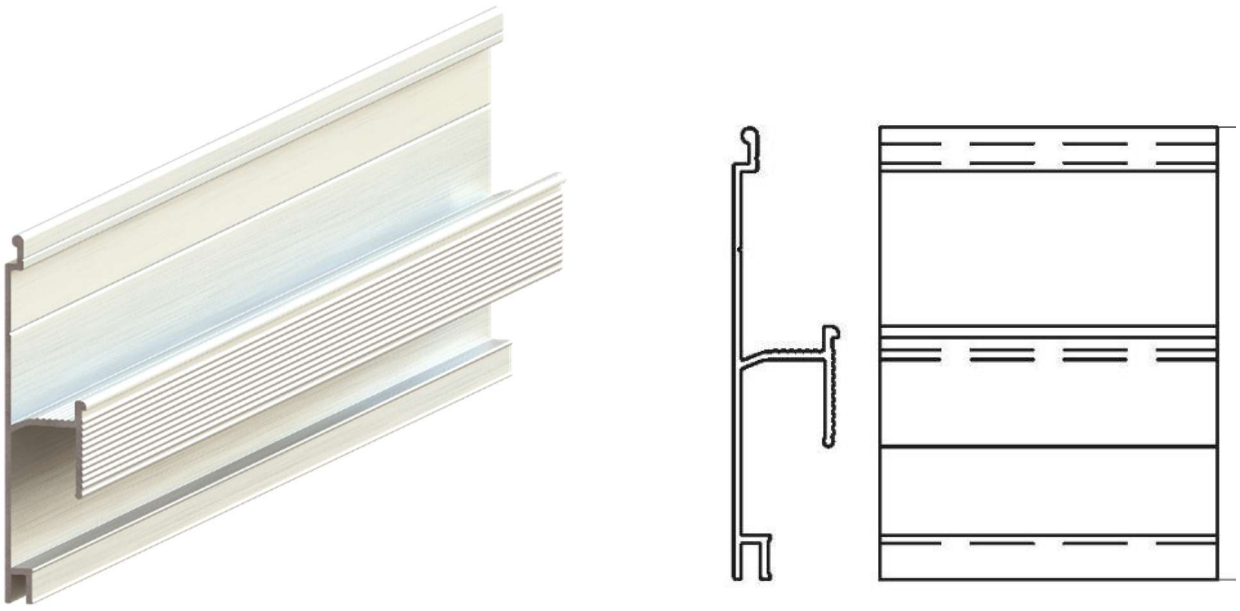
System Boundaries & Description



LCA information

Functional unit / declared unit	1kg of Briklok S Mid Profile Anodised
Technical Lifespan	Expected 60 years
Time representativeness	2024-01-01 to 2024-12-31
Database(s) and LCA software used	Ecoinvent 3.10, 2023 and SimaPro 9.6.1, with characterisation factor of EN 15804+A2 reference package based on EF 3.1 utilised
Description of system boundaries	Cradle to gate (A1-A3) with optional modules (A4 and A5) and C1-C4 and module D

System diagram



Briklok S Mid Profile Anodised

Allocation
All data were from raw material; energy consumption and transportation were weighted according to 2024 production figures.

Cut-off Criteria

1% cut-off was applied in the background LCA report. Flows contributing to a minimum of 99% of the declared environmental impacts are included.

REACH Regulations

No substances included in the Candidate List of Substances of Very High Concern for authorisation under the REACH regulations are present in this product either above the threshold for registration with the European Chemicals Agency or above 0.1% (wt/wt).

Background information

For this study impacts of infrastructure and capital goods are excluded from the life cycle stages.

Product Composition

Briklok S Mid Profile Anodised profiles are packaged and sent to customers. See table below:

Product Composition	Mass, Kg	Post-consumer recycled material, weight %	Biogenic Carbon, kg/c
Aluminium	1	44%	0.00E+00

Packaging Composition	Mass, Kg	Post-consumer recycled material, weight %	Biogenic Carbon, kg/c
Cardboard Box	4.29E-04	0%	1.93E-04
Parcel Tape	3.70E-07	0%	0.00E-00
Euro Pallet	3.79E-03	0%	1.79E-03
Shrink Wrap	1.79E-06	0%	0.00E-00

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

	Product stage			Construction process stage		Use stage							End of life stage				Resource recovery stage
	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	x	x	ND	ND	ND	ND	ND	ND	ND	X	X	X	X	x
Geography	UK	UK	UK	UK	UK	-	-	-	-	-	-	-	UK	UK	UK	UK	UK
Specific data used	>90%					-	-	-	-	-	-	-	-	-	-	-	-
Variation – products	<10%					-	-	-	-	-	-	-	-	-	-	-	-
Variation – sites	0%					-	-	-	-	-	-	-	-	-	-	-	-

Description of the system boundary (X = Included in LCA, ND=Not Declared)

Results of the environmental performance indicators

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. The results declared in A1-A5 should not be used without considering the results in module C.

Mandatory impact category indicators according to EN 15804

Results per functional or declared unit									
Indicator	**Unit**	**A1-A3**	**A4**	**A5**	**C1**	**C2**	**C3**	**C4**	**D**
GWP-fossil	kg CO_2 eq.	6.74E+00	3.70E-02	2.14E-04	6.27E-04	4.74E-03	3.50E-02	0.00E+00	-1.81E-02
GWP-biogenic	kg CO_2 eq.	-1.21E+00	1.55E-06	1.21E+00	1.19E-08	2.54E-06	3.64E-05	0.00E+00	-1.75E-03
GWP- luluc	kg CO_2 eq.	2.10E-02	1.52E-05	6.20E-08	4.17E-08	1.68E-06	1.03E-04	0.00E+00	-1.49E-04
GWP- total	kg CO_2 eq.	5.55E+00	3.70E-02	1.21E+00	6.27E-04	4.75E-03	3.51E-02	0.00E+00	-2.00E-02
ODP	kg CFC 11 eq.	2.81E-07	6.17E-10	1.44E-12	3.20E-11	9.89E-11	5.37E-10	0.00E+00	-5.70E-10
AP	mol H^+ eq.	3.85E-02	9.40E-05	7.20E-07	1.31E-06	1.12E-05	2.36E-04	0.00E+00	3.02E-03
EP-freshwater	kg P eq.	3.44E-04	3.46E-07	5.59E-08	4.14E-09	3.83E-08	3.90E-07	0.00E+00	1.09E-05
EP-marine	kg N eq.	5.57E-03	2.33E-05	3.85E-06	3.28E-07	2.88E-06	8.27E-05	0.00E+00	5.85E-05
EP-terrestrial	mol N eq.	6.06E-02	2.58E-04	2.24E-06	3.54E-06	3.18E-05	9.03E-04	0.00E+00	1.10E-03
POCP	kg NMVOC eq.	1.82E-02	1.41E-04	1.42E-06	1.18E-06	1.95E-05	2.85E-04	0.00E+00	3.51E-04
ADP-minerals& metals*	kg Sb eq.	5.41E-06	1.03E-07	1.48E-10	8.53E-10	1.33E-08	9.98E-08	0.00E+00	7.49E-06
ADP-fossil*	MJ	8.47E+01	5.61E-01	1.36E-03	1.44E-02	7.12E-02	4.82E-01	0.00E+00	-2.47E-02
WDP*	m^3	1.71E+00	2.81E-03	0.00E+00	1.47E-05	3.39E-04	2.54E-03	0.00E+00	-1.70E-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 of these results are high or as there is limited experience with the indicator.*

Additional mandatory and voluntary impact category indicators

Results per functional or declared unit									
Indicator	**Unit**	**A1-A3**	**A4**	**A5**	**C1**	**C2**	**C3**	**C4**	**D**
GWP-GHG*	kg CO_2 eq.	6.76E+00	3.70E-02	2.14E-04	6.27E-04	4.75E-03	3.51E-02	0.00E+00	-1.82E-02

**GWP-GHG = Global Warming Potential total excluding biogenic carbon. GWP-GHG indicator is similar to GWP-Total except that the characterisation factor (CF) for biogenic CO2 is set to zero.*

Additional environmental indicators

Results per functional or declared unit									
Indicator	**Unit**	**A1-A3**	**A4**	**A5**	**C1**	**C2**	**C3**	**C4**	**D**
PM	Disease inc	5.82E-07	3.56E-09	9.54E-12	4.59E-12	4.61E-10	3.44E-09	0.00E+00	7.46E-09
IR[1]	kBq U-235 eg	2.32E-01	3.96E-04	1.28E-06	2.08E-04	3.14E-05	2.06E-04	0.00E+00	-2.68E-03
ETP-FW[1]	CTUe	1.24E+02	3.76E-02	6.96E-04	2.95E-04	3.62E-03	4.22E-02	0.00E+00	-6.82E+00
HTP-c[2]	CTUh	1.44E-07	1.88E-10	4.37E-13	7.15E-13	3.04E-11	2.14E-10	0.00E+00	1.57E-09
HTP-nc[2]	CTUh	1.04E-05	3.31E-10	1.62E-11	1.46E-12	4.29E-11	2.64E-10	0.00E+00	2.61E-08
SQP[2]	Pt	1.11E+02	5.50E-01	2.53E-03	6.61E-04	7.16E-02	3.15E-01	0.00E+00	9.16E-01

Disclaimer:

1.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.

2.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 experienced with the indicator.

Resource use indicators

Results per functional or declared unit									
Indicator	**Unit**	**A1-A3**	**A4**	**A5**	**C1**	**C2**	**C3**	**C4**	**D**
PERE	MJ	5.94E+01	7.08E-03	4.09E-05	1.58E-04	1.10E-03	8.26E-03	0.00E+00	1.12E-01
PERM	MJ	2.13E+02	0.00E+00	-2.13E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PERT	MJ	2.72E+02	7.08E-03	-2.13E+02	1.58E-04	1.10E-03	8.26E-03	0.00E+00	1.12E-01
PENRE	MJ	8.56E+01	5.61E-01	1.36E-03	1.44E-02	7.12E-02	4.83E-01	0.00E+00	-2.47E-02
PENRM	MJ	2.87E-01	0.00E+00	-2.87E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PENRT	MJ	8.58E+01	5.61E-01	-2.85E-01	1.44E-02	7.12E-02	4.83E-01	0.00E+00	-2.47E-02
SM	kg	4.40E-01	0.00E+00	0.00E+00	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	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	0.00E+00	0.00E+00
FW	m^3	1.28E+01	8.50E-05	0.00E+00	2.18E-06	1.07E-05	7.91E-05	0.00E+00	-4.13E-03
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 functional or declared unit									
Indicator	**Unit**	**A1-A3**	**A4**	**A5**	**C1**	**C2**	**C3**	**C4**	**D**
Hazardous waste disposed	kg	7.41E-03	3.72E-06	8.44E-09	4.26E-08	4.68E-07	3.17E-06	0.00E+00	5.90E-04
Non-hazardous waste disposed	kg	1.86E+00	4.65E-02	4.23E-03	6.56E-06	6.09E-03	2.54E-02	8.80E-02	1.86E-03
Radioactive waste disposed	kg	3.01E-03	2.02E-07	8.20E-10	8.41E-08	2.14E-08	1.29E-07	0.00E+00	-1.64E-06

Output flow indicators

Results per functional or declared unit									
Indicator	**Unit**	**A1-A3**	**A4**	**A5**	**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	0.00E+00	0.00E+00
Material for recycling	kg	5.94E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.12E-01	0.00E+00	0.00E+00
Materials for energy recovery	kg	1.13E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Exported energy, electricity	MJ	2.50E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Exported energy, thermal	MJ	4.44E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Additional environmental information

Conversion

The impacts for the product can calculated by upscaling the impact of the representative product to 1kg then multiply by the weight of products below.

Conversion factor $= impact\ of\ representative\ product\ \times product\ mass = impacts\ for\ \ new\ product$

Product List

Description	Code	Weight Each [Kg]
Briklok MJ Profiles Anodised 3m	167393	0.244
Briklok S Upper Profile Anodised 3m	167379	0.318
Briklok XL Upper Profile Anodised 3m	167421	0.310
Briklok S Mid Profile Anodised 3m	167380	0.522
Briklok XL Mid Profile Anodised 3m	167420	0.514
Briklok Soldier Spacer Anodised 3m	167391	0.363
Briklok Lower Profile Anodised 3m	167381	0.265

Results

Legend

A1: Raw Material Supply, A2: Transport, A3: Manufacturing, A4: Transport, A5: Installation, C1: Deconstruction/Demolition, C2: Waste transport, C3: Waste Processing, C4: Disposal, D: Benefits and loads

Acronyms

GWP-total: Climate change, GWP-fossil: Climate change- fossil, GWP-biogenic: Climate change - biogenic, GWP-luluc: Climate change - land use and transformation, ODP: Ozone layer depletion, AP: Acidification terrestrial and freshwater, EP-freshwater: Eutrophication freshwater, EP-marine: Eutrophication marine, EP-terrestrial: Eutrophication terrestrial, POCP: Photochemical oxidation, ADP-Minerals and Metals: Abiotic depletion – potential for non-fossil resources, ADP-Fossil: Abiotic depletion - fossil resources, WDP: Water scarcity, PM: Respiratory inorganics - particulate matter, IR: Ionising radiation, ETP-FW: Ecotoxicity freshwater, HTP-c: Cancer human health effects, HTP-nc: Non-cancer human health effects, SQP: Land use related impacts, soil quality.

References

General Programme Instructions of the International EPD® System. Version 4.0.

EN 15804
EN 15804:2012+A2:2019 Sustainability of construction works — Environmental Product Declarations — Core rules for the product category of construction products.

PCR 2019:14 Version 1.3.4
PCR 2019:14, Construction Products, version 1.3.4. www.environdec.com.

ISO 14044
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