

Environmental Product Declaration

The Monolith Basin System

Programme	The International EPD® System
Programme operator	EPD International AB
Geographical scope	Global
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In accordance with ISO 14025 and EN 15804:2012+A2:2019/AC:2021

An EPD should provide current information and may be updated if conditions change.
The stated validity is therefore subject to the continued registration and publication at
www.environdec.com

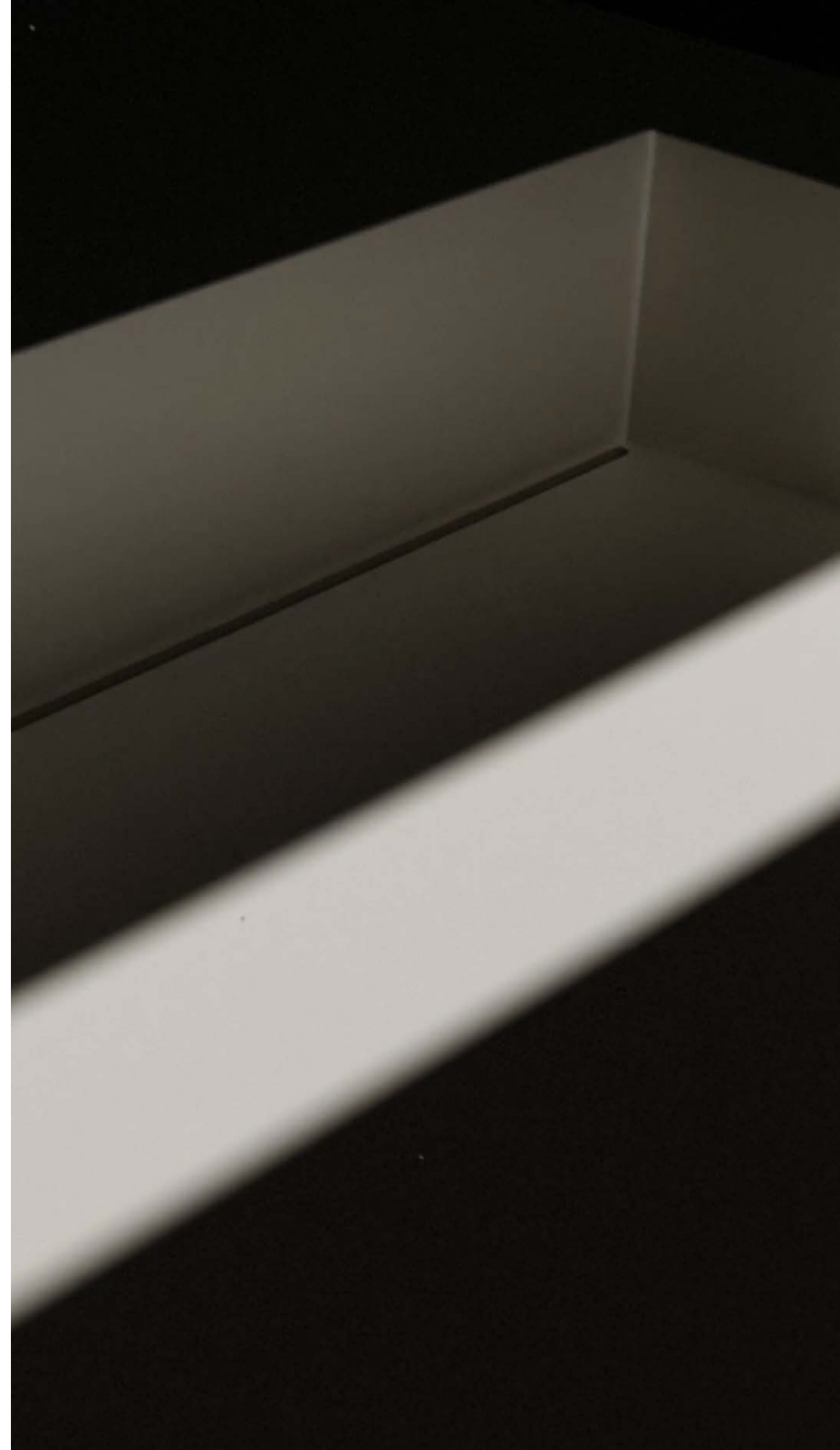




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Programme information

ISO standard ISO 21930 and CEN standard EN 15804 serves as the core Product Category Rules (PCR)

Product Category Rules (PCR): PCR 2019:14 Construction products, version 1.2.5, Construction EN 15804:2012 + A2:2019/AC:2021, Sustainability of Construction Works

PCR review was conducted by: The Technical Committee of the International EPD® System. Review chair: Claudia A. Peña, University of Concepción, Chile

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Independent third-party verification of the declaration and data, according to ISO 14025:2006:

EPD process certification EPD verification ☒

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 from different programmes may not be comparable. EPDs of construction products may not be comparable if they do not comply with EN 15804.

Third party verifier: Prof. Ing. Vladimír Kočí, Ph.D., MBA, LCA Studio

Approved by: The International EPD® System Technical Committee, supported by the Secretariat

Programme information

EPDs within the same product category but registered in different EPD programmes 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.

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How to read this EPD

An Environmental Product Declaration (EPD) is an ISO Type III Environmental Declaration based on ISO 14025 standard. An EPD transparently reports the environmental performance of products or services from a lifecycle perspective. The preparation of an EPD includes different stages, from acquiring raw materials to the end of life of the final product/service. EPDs are based on international standards and consider the entire value chain. Additionally, EPD is a third-party verified document. This EPD includes several sections described below.

General and program information

The first part of an EPD has information about the name of the manufacturer and product/service and other general information such as the validity and expiration dates of the document, the name of the program operator, geographical scope, etc. The second page states the standards followed and gives information about the program operator, third-party verifier, etc. The followed Product Category Rule (PCR) is indicated on the second page.

Company and product information

Information about the company and the investigated product is given in this section. It sum-

marizes the characteristics of the product provided by the manufacturer. It also includes information about the product such as product composition and packaging.

LCA information

LCA information is one of the most important parts of the EPD as it describes the functional/declared unit, time representativeness of the study, database(s) and LCA software, along with system boundaries. The table presented in this part has columns for each stage in the life cycle. The considered stages are marked 'X' whereas the ones that are not considered are labeled as 'NR'. Not all EPDs consider the full life cycle assessment for a product's entire life stages. The

'System Boundary' page is also the place where one can find detailed information about the stages and the assumptions made.

LCA results

The results of the Life Cycle Assessment analysis are presented in table format. The first column in each table indicates the name of the impact category and their measurement units are presented in the second column. These tables show an amount at each life cycle stage to see the impact of different indicators on different stages. Each impact can be understood as what is released through the production of the declared unit of the material—in this case, 1 kg of Monolith.

The benefits of reuse/recycling of the declared product are reflected in this section. The first impact in the table is global warming potential (GWP), which shows how much CO₂ is released at each stage. Other impacts include eutrophication potential, acidification potential, ozone layer depletion, land use related impacts, etc. The second table provides results for resource use and the third table is about the waste produced during production. The fourth and final table shows the results for the GWP-GHG indicator, which is almost equivalent to the GWP-Total indicator mentioned previously. The only difference is that this indicator excludes the biogenic carbon content by following a certain methodology.

About the company

All things considered.

We are The Splash Lab.

Restrooms are the most often used spaces and the least considered. We're changing that. We have built on our reputation re-interpreting the rituals around hygiene and the restroom experience.

We believe the future is personal. We challenge conventional restroom norms via product innovation to create considered solutions for corporate, commercial, public, hospitality and residential spaces. We use rich raw materials, cutting-edge automation, and modular bathroom systems to powerfully and positively influence the lives of people and the planet.

Sustainability

TSL's award winning products make environmentally conscious restrooms a breeze to specify and a delight to use. For sustainability beyond resource-consciousness, TSL manufactures products in long-wearing stainless steel and solid surface, keeping them out of landfills for years to come.

Inclusivity

We are committed to making restroom products that foster a safe, harmonious, rejuvenating, and functional space for everyone who passes through.





Holistic design

From the smallest detail of sensor placement to the high quality finishes that bring together your aesthetic vision, we pledge to consider every human element of interaction with our products.







Product information

A highly configurable, modular sink system for commercial restrooms, The Monolith is seamless on the outside, clever on the inside, and simple to specify. The system harnesses the power of “controlled customization” to offer stock variations with ADA compliance and a minimalist aesthetic.

USA

	A Series	15 kg per 30 inch module
	B Series	15 kg per 30 inch module
	C Series	15 kg per 30 inch module
	D Series	15 kg per 30 inch module

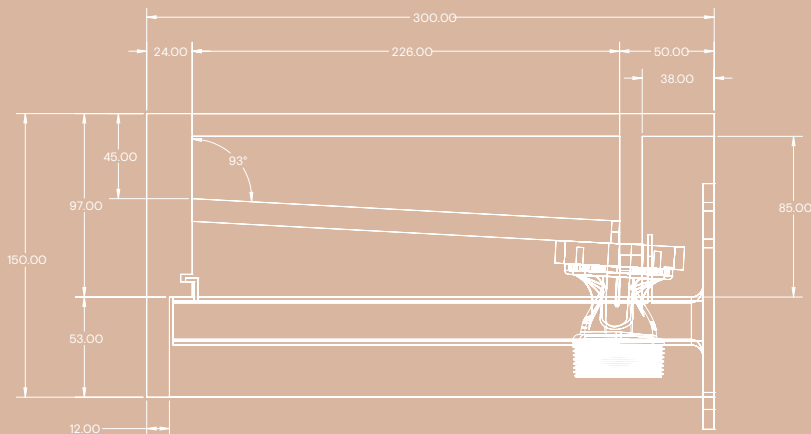
UK

	S Series	12 kg per 600 mm module
	S+ Series	12 kg per 600 mm module
	M Series	12 kg per 600 mm module
	M+ Series	12 kg per 600 mm module
	L Series	12 kg per 600 mm module
	L+ Series	12 kg per 600 mm module

Product information

The product investigated in this EPD is the company's modular solid surface basin. The Monolith Collection is ideal for both wall-mounted and deck-mounted features. The product is available bespoke lengths to accommodate users in any washroom.

Main material used in the product is 'solid surface' which includes acrylic resin, pigments for coloring, and alumina trihydrate as filler. An average product weight of 63 kg is assumed in the analysis. Product breakdown and packaging materials are shown below.



Raw material

Methyl Methacrylate (MMA)	20%
Polymethyl Methacrylate (PMMA)	10%
Aluminium Trihydrate (ATH)	60%
Pigment	10%

Packaging material

Cardboard	80%
Plastic	20%

Technical data

Warranty	10 years from date of purchase
Material	Solid surface
Support brackets	Powder-coated steel
Finishes	See reference to supplier materials - Primarily Hi Macs, Corian
Wall construction	Brackets included. Installer should ascertain that wall construction is sufficiently designed to support the Monolith
Plumbing	Connection to 1 ^{1/4} " waste outlet required. (one connection per user) Installer to provide water for taps. See separate datasheet for The Splash Lab sensor taps
Access requirements	Solenoid and isolation valves must be accessible for initial installation & commissioning and for ongoing and routine maintenance
Wall fixings	Must be fixed to a suitable wall substrate to allow for the correct use of the Monolith. The Splash Lab recommend that installers contact a fixings specialist for advice to ensure the correct fixings are used for the location. Wall fixings are not included with the Monolith.

System boundary

A1 **Raw material supply**

This stage includes raw material extraction and pre-treatment processes before production. The material used for the product is 'solid surface' which includes acrylic resin, pigments, and alumina trihydrate as filler. Their impacts are included at this stage.

A4 **Transport**

This stage is relevant for the shipment of the final product. Transportation routes and distances are supplied by the manufacturer.

A2 **Transport**

Transportation of raw materials to the plant is considered in this stage. Majority of the transportation is handled via trucks.

A3 **Manufacturing**

This stage includes manufacturing related impacts. Following processes are included: Solid surface sheets are fed into the CNC machine for cutting. A precise cutting layout minimizes material waste. A special adhesive seamlessly bonds separate planes into a single unit. Once cured, excess adhesive is removed, then the sink is trimmed and planed by machine. A final finish and inspection is made by hand on all bonded angles, corners, and planes. The sink is then prepared for shipment with all fittings and brackets.

System boundary

C1 **Deconstruction** **and demolition**

This stage includes any impacts arising during the deconstruction/dismantling process of the product. Considering the total impact of the product throughout different life cycle stages, the impact in this stage for declared unit of product becomes very low and can be ignored according to the related PCR by following 1% cut-off rule.

C4 **Disposal**

It is assumed that the product is landfilled after its useful service life. Related impacts are considered in this stage.

C2 **Transport**

This stage includes transportation of the discarded product to the waste processing or landfill area. 50 km transportation distance is assumed.

D **Reuse, recycling,** **and recovery potential**

Any reuse, recycling, recovery potential are considered in this stage. Since the product 100% landfilled, no benefit is allocated to this stage.

C3 **Waste processing**

This stage includes any waste processing related impact after the product reaches its end of life. It is assumed that no waste processing is needed after the product reaches its end of life phase.

LCA information

Declared unit	1 kg of Monolith Basin System produced by The Splash Lab.
Geographical scope	The geographical scope of this EPD is Global.
System boundary	Cradle to gate with options, modules C1–C4, module D and with optional module A4.
Database and LCA software	Ecoinvent 3.9.1 and SimaPro 9.5.
Period under review	All primary data collected from The Splash Lab is for the year 2022.
Allocations	Raw material transportation were weighted according to 2022 transportation figures. In addition, hazardous and non-hazardous waste amounts were also allocated from the 2022 total waste generation.
Cut-off criteria	1% cut-off applied. Data for elementary flows to and from the product system contributing to a minimum of 99% of the declared environmental impacts have been included.
REACH regulation	No substances included in the Candidate List of Substances of Very High Concern for authorization 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)

	Product stage			Construction process stage		Use stage							End-of-life stage				Benefits and loads
	Raw materials supply	Transport	Manufacturing	Transport	Construction installation	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	Deconstruction and demolition	Transport	Waste processing	Disposal	Future reuse, recycling or energy recovery potentials
Module	A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Declared modules	X	X	X	X	ND	ND	ND	ND	ND	ND	ND	ND	X	X	X	X	X
Geography	GLO	GLO	GLO	GLO	-	-	-	-	-	-	-	-	GLO	GLO	GLO	GLO	GLO
Specific data used	>90%					-											
Variation / products	<10%					-											
Variation / sites	0%					-											

X = Included in LCA, ND= Not declared

LCA results



Indicator	Unit	A1-A3	A4	C1	C2	C3	C4	D
GWP / fossil	kg CO ₂ eq	1.77E+01	4.56E-02	0.00E+00	5.08E-03	0.00E+00	5.88E-02	0.00E+00
GWP / biogenic	kg CO ₂ eq	2.73E-02	6.05E-06	0.00E+00	1.93E-06	0.00E+00	6.78E-01	0.00E+00
GWP / luluc	kg CO ₂ eq	1.83E-02	2.84E-05	0.00E+00	2.61E-06	0.00E+00	1.99E-05	0.00E+00
GWP / total	kg CO ₂ eq	1.78E+01	4.57E-02	0.00E+00	5.08E-03	0.00E+00	7.37E-01	0.00E+00
ODP	kg CFC-11 eq	7.75E-07	7.40E-10	0.00E+00	8.64E-11	0.00E+00	3.49E-10	0.00E+00
AP	mol H+ eq	5.72E-02	6.46E-04	0.00E+00	1.39E-05	0.00E+00	1.62E-04	0.00E+00
EP / freshwater	kg P eq	1.92E-03	2.86E-06	0.00E+00	4.26E-07	0.00E+00	1.44E-05	0.00E+00
EP / marine	kg N eq	1.36E-02	1.62E-04	0.00E+00	3.66E-06	0.00E+00	1.82E-03	0.00E+00
EP / terrestrial	mol N eq	1.46E-01	1.78E-03	0.00E+00	3.79E-05	0.00E+00	4.68E-04	0.00E+00
POCP	kg NMVOC	4.65E-02	5.32E-04	0.00E+00	2.00E-05	0.00E+00	3.46E-04	0.00E+00
**ADPE	kg Sb eq	4.16E-05	9.26E-08	0.00E+00	1.42E-08	0.00E+00	5.87E-08	0.00E+00
**ADPF	MJ	4.22E+02	6.34E-01	0.00E+00	7.67E-02	0.00E+00	3.32E-01	0.00E+00
**WDP	m ³ depriv.	1.30E+00	2.56E-03	0.00E+00	3.90E-04	0.00E+00	1.09E-02	0.00E+00
PM	disease inc.	4.49E-07	3.17E-09	0.00E+00	5.01E-10	0.00E+00	2.18E-09	0.00E+00
*IR	kBq U-235 eq	1.29E+01	4.79E-04	0.00E+00	7.03E-05	0.00E+00	1.21E-03	0.00E+00
**HTP / C	CTUh	7.09E-09	2.00E-11	0.00E+00	2.26E-12	0.00E+00	2.95E-11	0.00E+00
**HTP / NC	CTUh	1.40E-07	3.57E-10	0.00E+00	5.56E-11	0.00E+00	1.35E-09	0.00E+00
**SQP	Pt	1.66E+02	4.21E-01	0.00E+00	7.76E-02	0.00E+00	5.95E-01	0.00E+00
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, ADPE: Abiotic depletion - elements, ADPF: 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.							
Legend	A1: Raw Material Supply. A2: Transport. A3: Manufacturing. A1-A3: Sum of A1. A2. and A3. A4: Transport to Site. C1: De-Construction. C2: Waste Transport. C3: Waste Processing. C4: Disposal. D: Benefits and Loads Beyond the System Boundary.							
*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.							
**Disclaimer 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.							
Information on biogenic carbon content according to EN 15804+A2								
Biogenic carbon content in product		kg C		1.02E-02				
Biogenic carbon content in packaging		kg C		2.78E-03				

Resource use								
Indicator	Unit	A1-A3	A4	C1	C2	C3	C4	D
PERE	MJ	8.47E+01	6.71E-03	0.00E+00	9.70E-04	0.00E+00	1.57E-02	0.00E+00
PERM	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PERT	MJ	8.47E+01	6.71E-03	0.00E+00	9.70E-04	0.00E+00	1.57E-02	0.00E+00
PENRE	MJ	4.22E+02	6.34E-01	0.00E+00	7.67E-02	0.00E+00	3.33E-01	0.00E+00
PENRM	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PENRT	MJ	4.22E+02	6.34E-01	0.00E+00	7.67E-02	0.00E+00	3.33E-01	0.00E+00
SM	MJ	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
NRSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FW	m³	1.05E-01	1.02E-04	0.00E+00	1.57E-05	0.00E+00	3.06E-04	0.00E+00
Acronyms	PERE: Use of renewable primary energy excluding resources used as raw materials, PERM: Use of renewable primary energy resources used as raw materials, PERT: Total use of renewable primary energy, PENRE: Use of non-renewable primary energy excluding 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, SM: Secondary material, RSF: Renewable secondary fuels, NRSF: Non-renewable secondary fuels, FW: Net use of fresh water.							
Waste output flows								
Indicator	Unit	A1-A3	A4	C1	C2	C3	C4	D
HWD	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NHWD	kg	4.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RWD	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CRU	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MFR	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MER	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EE(Electrical)	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EE(Thermal)	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Acronyms	HWD: Hazardous waste disposed, NHWD: Non-hazardous waste disposed, RWD: Radioactive waste disposed, CRU: Components for reuse, MFR: Material for recycling, MER: Materials for energy recovery, EE (Electrical): Exported energy electrical, EE (Thermal): Exported energy, Thermal.							
Climate impact								
Indicator	Unit	A1-A3	A4	C1	C2	C3	C4	D
*GHG-GWP	kg CO ₂ eq	1.78E+01	4.57E-02	0.00E+00	5.09E-03	0.00E+00	5.74E-01	0.00E+00
GHG-GWP = Global Warming Potential total excl. biogenic carbon following IPCC AR5 methodology * The indicator includes all greenhouse gases included in GWP-total but excludes biogenic carbon dioxide uptake and emissions and biogenic carbon stored in the product. This indicator is thus equal to the GWP indicator originally defined in EN 15804:2012+A1:2013								

References

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

EN ISO 9001 / Quality Management Systems – Requirements

EN ISO 14001 / Environmental Management Systems – Requirements

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ISO 14020:2000 / Environmental Labels and Declarations – General principles

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

ISO 14025 / DIN EN ISO 14025:2009-11: Environmental labels and declarations –Type III environmental declarations – Principles and procedures

ISO 14040 / 44 / DIN EN ISO 14040:2006-10. Environmental management – Life cycle assessment – Principles and framework (ISO14040:2006) and Requirements and guidelines (ISO 14044:2006)

SimaPro / SimaPro LCA Software. Pré Consultants. the Netherlands. www.presustainability.com

PCR for Construction Products and Construction Services / Prepared by IVL Swedish Environmental Research Institute. Swedish Environmental Protection Agency. SP Trä. Swedish Wood Preservation Institute. Swedisol. SCDA. Svenskt Limträ AB. SSAB. The International EPD System. 2019:14 Version 1.2.5

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

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