AXOR · hansgrohe

ENVIRONMENTAL PRODUCT DECLARATION

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

CONCEALED CISTERNS from Hansgrohe Group

Covered products by the EPD:

Art. No. 01022180	iFrame universal Concealed cistern 1120
Art. No. 01025180	iFrame universal Concealed cistern 1120, UK
Art. No. 01026180	iFrame universal Concealed cistern 1120, Nordics

Programme:	The International EPD® System
Programme operator:	EPD International AB
Type of EPD:	EPD of multiple products, based on a representative product
EPD registration number:	EPD-IES-0025541:001
Version date:	2026-04-30
Valid until:	2031-04-29

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

EPD INTERNATIONAL EPD SYSTEM

ECO PLATFORM EPD VERIFIED

Content

General information

Programme information

Programme
The International EPD® System

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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): 2019:14 Construction products (EN 15804+A2) 2.0.1

PCR review was conducted by: The Technical Committee of the International EPD System. See www.environdec.com for a list of members. Review chair: Rob Rouwette (chair), Noa Meron (co-chair). The review panel may be contacted via the Secretariat www.environdec.com/contact

Life Cycle Assessment (LCA)

Shanthi Meganathan & Anna Carstens, brands & values GmbH, Hollerallee 14A, 28209 Bremen, Germany

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: Marcel Gómez Ferrer, Marcel Gómez Consultoria Ambiental

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

Owner of the EPD

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Hansgrohe Group

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Description of the organisation

The Hansgrohe Group, with its AXOR and hansgrohe brands, is based in the Black Forest town of Schiltach in Southern Germany and is considered one of the leading companies in the bathroom and kitchen industry. Founded in 1901 and known for its innovative spirit, excellently designed products, and strong quality, the company develops and manufactures faucets, showerheads, and shower systems that give water both form and function. Combined with sanitary ceramics and bathroom furniture, Hansgrohe offers holistic bathroom solutions from a single source. Unique innovations such as the first hand-held shower with multiple spray types, the first pull-out kitchen faucet, and the first shower bar have shaped the company's 125-year history. More than 15,000 active property rights underscore Hansgrohe's commitment to innovation. The company stands for long-lasting quality and responsibility toward people and the environment.

Sustainability is firmly embedded in its business practices – from resource-efficient manufacturing to technologies that help protect water as a resource and contribute to limiting and adapting to climate change.

With 35 subsidiaries, 23 sales offices, and distribution in more than 145 countries, the Hansgrohe Group operates worldwide. Since 1974, its brands and products have received more than 800 design awards. Hansgrohe products can be found in renowned cruise ships, international 5-star and boutique hotels, exclusive spas, luxury private bathrooms, as well as numerous public and private construction projects across the globe. High quality standards are ensured by eight wholly owned production sites – four in Germany and one each in France, Serbia, the United States, and China.

In the 2025 fiscal year, the Hansgrohe Group generated revenue of EUR 1.375 billion and employed around 5,600 people worldwide, about 60 percent of them in Germany.

We do not rest on what we have achieved. The Hansgrohe Group regularly sets itself new, ambitious corporate goals. To achieve them, we plan the necessary measures within the framework of the Hansgrohe management system. We transfer improvements that have proven successful at one location to the entire production network. We work in accordance with international standards: In this way, we ensure the high quality of all our products and services worldwide and guarantee safe jobs and the economical use of resources.

External auditing companies regularly put our management system to the test. It is certified according to international rules and is transparent and comprehensible for everyone. Hansgrohe complies with the standards

ISO 9001 for quality management,
ISO 14001 for environmental management,
ISO 50001 for energy management and
ISO 45001 for occupational safety management.

Product information

General information

Product name	Concealed cisterns
Product identification	The EPD covers a group of concealed cisterns (representative item 01022180).
Product description	Concealed cisterns consist of a precision-molded plastic cistern combined with metal and non-metal accessories like support frame, drainage pipe and valves. Designed for durability and functionality, the systems ensure efficient water storage and flushing functionality in sanitary environments. The cisterns are intended for use in buildings as part of modern bathroom installations. The concealed design supports aesthetic and space-saving requirements, making it ideal for wall-hung toilet systems. Manufacturing involves the preparation and drying of plastic granulates, injection moulding of parts, and final assembly with accessories such as push buttons and frames, followed by packaging.
UN CPC Code	42911
Production site	Portugal

Product information

Product scope

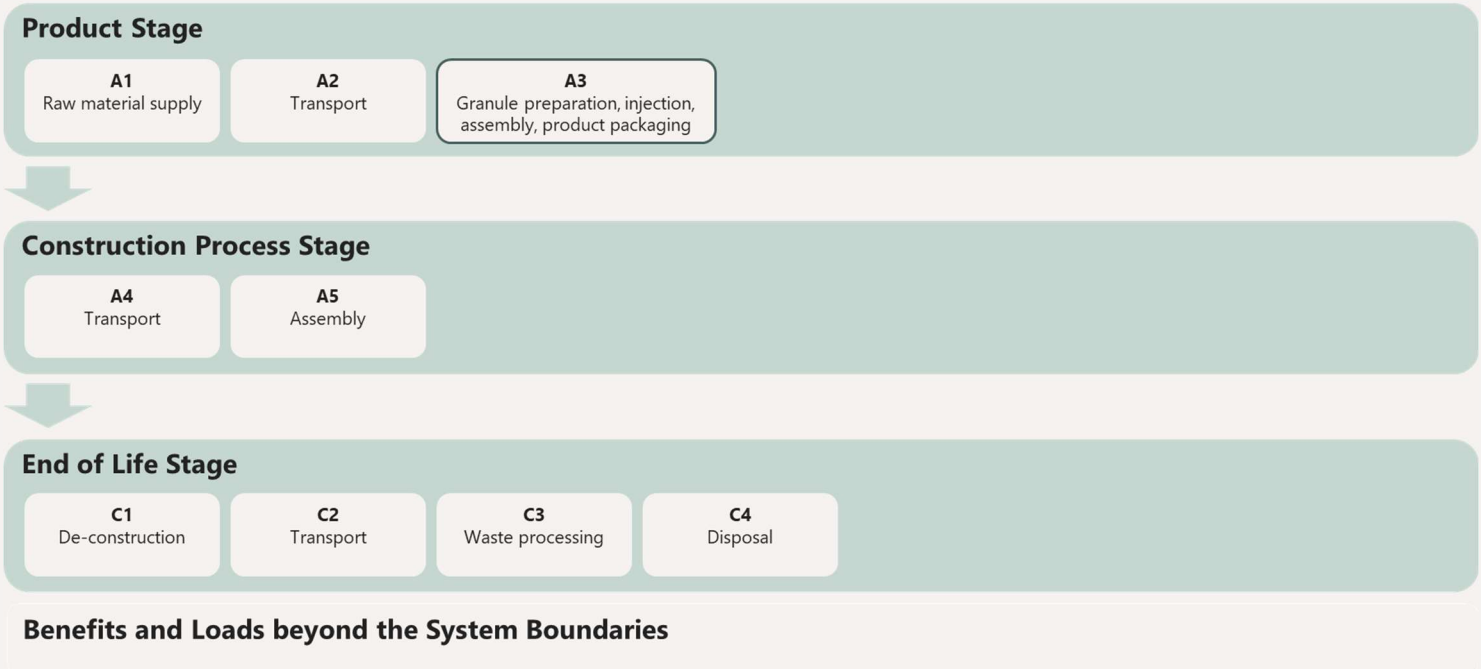
Art. Nr.	Covered products in the EPD
01022180	iFrame universal Concealed cistern 1120 for wall hung WC (representative item)
01025180	iFrame universal Concealed cistern 1120 for wall hung WC, UK
01026180	iFrame universal Concealed cistern 1120 for wall hung WC, Nordics

LCA information

General information

Declared unit	1 piece of concealed cistern incl. packaging
Reference service life	A RSL (according to ISO 15686:1,-2,-7 and 8) cannot be declared for the product under consideration. A technical service life of 20 years is therefore assumed according to the manufacturer's specifications, which on average is approximately the duration of use by the consumers.
Time representativeness	2025
Database(s) & LCA software	Sphera LCA for Experts (fka GaBi) version 10.9 and Sphera Managed LCA Content Version 2024.2
System boundaries	Cradle to gate with options, modules C1–C4, module D and with optional modules (A4–A5)

System diagram



LCA information

More information

Data Quality Assessment	Primary data include internal production and environmental data, supplier information and energy supply. Data were checked for plausibility and consistency, with attention to completeness and alignment with ISO 14044 requirements. For the upstream processes, generic data was selected. Foreground LCI data were modeled using Sphera LCA for Experts (GaBi) version 10.9 and manufacturer-provided data, including material inputs, outputs, and energy demands. The data collection period represents a planned production year, with justification for deviations from a full one-year period provided, in accordance with EN 15941 Section 7.3.3. Background datasets were selected from Sphera Managed LCA Content databases (Servicepack 2024.2) and are generally not older than 10 years. Overall, the data are considered representative of standard production, with good consistency and completeness. Overall, data quality is rated as good in accordance with EN 15941, with scores of 1.7 and 2.0 for the specific data and the background datasets used, respectively. There are no inventories with poor data quality.
Cut-off Criteria	All specific primary data from the manufacturer was considered, including material inputs, production processes, energy use, packaging, and waste treatment. No flows were cut off; even flows <1% of mass were modelled, with proxy datasets applied where no exact data was available. The resulting inventory fulfils EN 15804+A2 completeness requirements, covering >99% of total mass and energy inflows and at least 95% per life-cycle stage (A1–A3, A4–A5, C1–C4, D)
Scenario Description	Transport in A4 is modelled as truck transport from the warehouse to customers, with average distances representative of the declared market. A5 includes installation of the product and packaging disposal, modelled with recycling and incineration in line with regional practice. The installation of the declared product does not require energy, water or auxiliary materials and does not generate installation losses; therefore, no environmental impacts are assigned to installation activities. At end-of-life (C1–C4), no landfill option is considered; all materials are assumed to undergo recovery, recycling, or incineration with energy recovery, representing a realistic scenario. Module D accounts for the benefits and loads beyond the system boundary, from substitution of primary materials and energy.
End-of-life Scenario	Modules C1–C4 (End-of-life): At end-of-life, dismantling and deconstruction impacts are considered negligible (C1). Waste materials are transported by truck (C2), with average distances of 80 km for recycling and 130 km for incineration with energy recovery. In the sorting facility (C3), materials are processed using diesel and electricity in line with EN 15804+A2 requirements (loading/unloading, mechanical sorting, fragging of steel, treatment of other materials). Steel and alloy fractions are assumed to reach end-of-waste status after sorting and are sent for recycling, while plastics and other combustibles are sent to incineration with energy recovery. No landfill option is modelled. Module D (Beyond the system boundary): Module D reports benefits and loads from the recycling of steel and brass (substituting primary material production) and energy recovery from incinerated materials. Only the net flows of secondary materials are credited, in accordance with EN 15804+A2.
Allocation in Steel	A mass-based allocation method is applied in line with EN 15804+A2. Inputs and outputs are assigned to the declared unit according to their proportional mass. For multi-material components, allocation is carried out based on the relative mass shares of each material. The steel frame (7.6 kg of 12.3 kg total product mass) is modelled using 100% primary steel. The cut-off method was applied for recycled materials, while burdens from recycling processes are included in Module C3-C4 and credits for material recovery are reported in Module D.
Electricity	For electricity supplied externally, the Portuguese residual electricity mix for 2023 is used. The total climate impact of the electricity used in manufacturing is 1.01 kg CO_2 eq/kWh (GWP-GHG), reflecting the combination of supplier residual electricity and on-site photovoltaic generation.

LCA information

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	EU	EU	PT	Eastern Europe +POL	Eastern Europe +POL	–	–	–	–	–	–	–	Eastern Europe +POL	Eastern Europe +POL	Eastern Europe +POL	Eastern Europe +POL	Eastern Europe +POL
Share of primary data	0%			–	–	–	–	–	–	–	–	–	–	–	–	–	–
Variation – products	<10%			–	–	–	–	–	–	–	–	–	–	–	–	–	–
Variation – sites	0%			–	–	–	–	–	–	–	–	–	–	–	–	–	–

Maximum variations in the results of individual products compared to the representative product in %, if the variation in the result of an impact category is greater than 10%:

LCA result of one declared unit product (A-C)	Unit	Min	Representative	Max
ADPE-potential for abiotic depletion of non-fossil resources	kg Sb eq.	-1.2%	0%	10.8%

Content information

Product components & packaging materials

The content declaration refers to one HG iFrame universal (article. no. 01022180) in-wall flushing cistern system. The net product weight is 12.02 kg, while the packaging weight is 3.61 kg. The total gross weight is therefore 15.64 kg per declared unit. This EPD is based on representative product.

Product components	Mass, kg per declared unit	Post-consumer material mass-%	Biogenic material mass-% and kg C per declared unit
Cardboard & Paper	0.157	0%	1.31%/0.06
Steel	8.319	0%	0%
Brass	0.15	0%	0%
Plastics & Polymers	3.15	0%	0%
Rubbers	0.252	0%	0%
TOTAL	12.02	0%	1.31% /0.06

Packaging materials	Mass, kg	Mass-% (versus the product)	Mass biogenic carbon, kg C per declared unit
Cardboard	1.77	14.73%	0.729
Wood	1.80	14.98%	0.934
Fixing screws	0.01	0.10%	0.000
Paper	0.04	0.32%	0.016
TOTAL	3.62	30.12%	1.679

Dangerous substances, energy, transport, end of life & scenario D information

Dangerous substances from the candidate list of SVHC for Authorisation	EC No.	CAS No.	Mass-% per declared unit
Lead (as a component in alloy)	231-100-4	7439-92-1	0.03%
Dodecamethylcyclohexasiloxane	208-762-8	540-97-6	0.00%
TOTAL	–	–	0.03%

Results of the environmental performance indicators

Mandatory impact category indicators according to EN 15804

Results per declared unit									
Indicator	**Unit**	**A1-3**	**A4**	**A5**	**C1**	**C2**	**C3**	**C4**	**D**
GWP-total	kg CO2 eq.	4.01E+01	1.92E+00	1.81E+00	0.00E+00	1.60E-01	1.10E+00	9.32E+00	-2.49E+01
GWP-fossil	kg CO2 eq.	4.16E+01	1.88E+00	1.28E-01	0.00E+00	1.57E-01	1.04E+00	9.32E+00	-2.49E+01
GWP-biogenic	kg CO2 eq.	-1.61E+00	6.04E-03	1.68E+00	0.00E+00	4.90E-04	6.50E-02	3.26E-04	0.00E+00
GWP-luluc	kg CO2 eq.	9.65E-02	3.20E-02	3.72E-04	0.00E+00	2.57E-03	6.34E-04	3.05E-05	-5.07E-03
ODP	kg CFC-11 eq.	2.56E-10	2.80E-13	6.76E-13	0.00E+00	2.27E-14	5.37E-13	5.42E-13	-3.48E-11
AP	mol H+ eq.	1.11E-01	1.36E-02	1.23E-03	0.00E+00	6.02E-04	3.42E-04	1.14E-03	-6.03E-02
EP-freshwater	kg P eq.	1.21E-04	8.12E-06	2.60E-07	0.00E+00	6.51E-07	2.65E-07	1.21E-07	-1.58E-05
EP-marine	kg N eq.	3.61E-02	6.70E-03	4.19E-04	0.00E+00	2.82E-04	1.34E-04	3.13E-04	-9.82E-03
EP-terrestrial	mol N eq.	3.88E-01	7.41E-02	5.46E-03	0.00E+00	3.16E-03	1.67E-03	5.62E-03	-9.27E-02
POCP	kg NMVOC eq.	9.72E-02	1.31E-02	1.12E-03	0.00E+00	5.72E-04	3.11E-04	8.83E-04	-3.68E-02
ADP-minerals & metals*	kg Sb eq.	6.08E-04	1.66E-07	8.72E-09	0.00E+00	1.34E-08	7.74E-09	5.67E-09	-5.53E-04
ADP-fossil*	MJ	6.28E+02	2.50E+01	1.74E+00	0.00E+00	2.01E+00	1.06E+00	1.20E+00	-2.97E+02
WDP*	m3 world eq. deprived	1.86E+00	2.94E-02	6.40E-01	0.00E+00	2.36E-03	9.14E-02	8.72E-01	-2.27E+00
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.*

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

Results of the environmental performance indicators

Additional mandatory and voluntary impact category indicators

Results per declared unit									
Indicator	**Unit**	**A1-3**	**A4**	**A5**	**C1**	**C2**	**C3**	**C4**	**D**
GWP-GHG[1]	kg CO_2 eq.	4.17E+01	1.92E+00	1.28E-01	0.00E+00	1.59E-01	1.04E+00	9.32E+00	-2.49E+01

Resource use indicators

Results per declared unit									
Indicator	**Unit**	**A1-3**	**A4**	**A5**	**C1**	**C2**	**C3**	**C4**	**D**
PERE	MJ	1.32E+02	2.16E+00	5.95E+01	0.00E+00	1.74E-01	2.98E+00	3.37E-01	-3.30E+01
PERM	MJ	6.16E+01	0.00E+00	-5.90E+01	0.00E+00	0.00E+00	-2.59E+00	0.00E+00	0.00E+00
PERT	MJ	1.94E+02	2.16E+00	4.38E-01	0.00E+00	1.74E-01	3.94E-01	3.37E-01	-3.30E+01
PENRE	MJ	4.88E+02	2.50E+01	1.74E+00	0.00E+00	2.01E+00	1.41E+02	1.20E+00	-2.97E+02
PENRM	MJ	1.40E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-1.40E+02	0.00E+00	0.00E+00
PENRT	MJ	6.28E+02	2.50E+01	1.74E+00	0.00E+00	2.01E+00	1.06E+00	1.20E+00	-2.97E+02
SM	kg	1.92E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E+01
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	m3	1.21E-01	2.40E-03	1.51E-02	0.00E+00	1.93E-04	2.28E-03	2.04E-02	-1.86E+00
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								

[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 CO2 is set to zero.*

Results of the environmental performance indicators

Waste indicators

Results per declared unit									
Indicator	**Unit**	**A1-3**	**A4**	**A5**	**C1**	**C2**	**C3**	**C4**	**D**
Hazardous waste disposed	kg	1.05E-05	9.59E-10	8.79E-10	0.00E+00	7.73E-11	7.26E-10	7.04E-10	-2.61E-06
Non-hazardous waste disposed	kg	1.29E+00	4.09E-03	1.38E-01	0.00E+00	3.29E-04	2.17E-02	6.10E-02	1.81E+00
Radioactive waste disposed	kg	1.23E-02	4.56E-05	7.87E-05	0.00E+00	3.66E-06	7.75E-05	6.47E-05	-8.44E-03

Output flow indicators

Results per declared unit									
Unit	**Unit**	**A1-3**	**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	0.00E+00	0.00E+00	1.20E-02	0.00E+00	0.00E+00	1.07E+01	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	0.00E+00	0.00E+00
Exported energy. electricity	MJ	0.00E+00	0.00E+00	7.95E+00	0.00E+00	0.00E+00	1.97E+01	0.00E+00	2.01E+00
Exported energy. thermal	MJ	0.00E+00	0.00E+00	1.44E+01	0.00E+00	0.00E+00	3.51E+01	0.00E+00	3.59E+00

Other environmental performance indicators

Results per declared unit									
Indicator	**Unit**	**A1-3**	**A4**	**A5**	**C1**	**C2**	**C3**	**C4**	**D**
Particulate matter (PM)	Disease incidence	1.53E-06	5.74E-08	7.46E-09	0.00E+00	4.05E-09	1.95E-09	6.28E-09	-5.53E-07
Effect from human exposure to U235 (IR)	kBq U235 eq.	1.59E+00	6.62E-03	1.24E-02	0.00E+00	5.31E-04	1.27E-02	1.03E-02	-9.76E-01
Ecosystem Toxicity (ETP-fw)	CTUe	2.24E+02	1.86E+01	8.30E-01	0.00E+00	1.50E+00	5.53E-01	5.17E-01	-2.93E+01
Toxicitiy for human (carcinogenic) (HTP-c)	CTUh	5.60E-08	3.76E-10	5.49E-11	0.00E+00	3.02E-11	2.04E-11	6.23E-11	5.65E-09
Toxicity for human (non-carcinogenic) (HTP-nc)	CTUh	4.23E-07	1.69E-08	2.20E-09	0.00E+00	1.35E-09	5.61E-10	6.94E-10	-3.41E-08
Soil Quality Index (SQP)	Dimension-less	7.22E+02	1.23E+01	5.85E-01	0.00E+00	9.93E-01	4.68E-01	3.74E-01	-3.05E+01

Additional LCA results: 100% Recycling/ Incineration Scenario for modules C1-C4 & D

Mandatory impact category indicators according to EN 15804, per declared unit

Results per declared unit (Realistic end-of-life)							Results per declared unit (100% Recycling)					Results per declared unit (100% Incineration)				
Indicator	**Unit**	**C1**	**C2**	**C3**	**C4**	**D**	**C1**	**C2**	**C3**	**C4**	D	**C1**	**C2**	**C3**	**C4**	**D**
GWP-total	kg CO2 eq.	0.00E+00	1.60E-01	1.10E+00	9.32E+00	-2.49E+01	0.00E+00	1.57E-01	1.24E-01	0.00E+00	-2.49E+01	0.00E+00	1.60E-01	9.01E-01	1.03E+01	-6.20E+00
GWP-fossil	kg CO2 eq.	0.00E+00	1.57E-01	1.04E+00	9.32E+00	-2.49E+01	0.00E+00	1.54E-01	5.82E-02	0.00E+00	-2.49E+01	0.00E+00	1.57E-01	8.31E-01	1.03E+01	-6.20E+00
GWP-biogenic	kg CO2 eq.	0.00E+00	4.90E-04	6.50E-02	3.26E-04	0.00E+00	0.00E+00	4.82E-04	6.50E-02	0.00E+00	0.00E+00	0.00E+00	4.90E-04	6.96E-02	3.89E-04	0.00E+00
GWP-luluc	kg CO2 eq.	0.00E+00	2.57E-03	6.34E-04	3.05E-05	-5.07E-03	0.00E+00	2.53E-03	6.23E-04	0.00E+00	-6.80E-03	0.00E+00	2.57E-03	3.84E-04	4.41E-05	-5.68E-04
ODP	kg CFC-11 eq.	0.00E+00	2.27E-14	5.37E-13	5.42E-13	-3.48E-11	0.00E+00	2.23E-14	4.70E-13	0.00E+00	-9.95E-12	0.00E+00	2.27E-14	1.04E-11	6.39E-13	-5.60E-11
AP	mol H+ eq.	0.00E+00	6.02E-04	3.42E-04	1.14E-03	-6.03E-02	0.00E+00	5.77E-04	2.38E-04	0.00E+00	-6.17E-02	0.00E+00	6.02E-04	1.41E-03	1.31E-03	-6.60E-03
EP-freshwater	kg P eq.	0.00E+00	6.51E-07	2.65E-07	1.21E-07	-1.58E-05	0.00E+00	6.40E-07	2.43E-07	0.00E+00	-1.62E-05	0.00E+00	6.51E-07	-3.11E-07	1.52E-07	-1.05E-05
EP-marine	kg N eq.	0.00E+00	2.82E-04	1.34E-04	3.13E-04	-9.82E-03	0.00E+00	2.70E-04	1.06E-04	0.00E+00	-1.03E-02	0.00E+00	2.82E-04	8.11E-04	3.64E-04	-2.00E-03
EP-terrestrial	mol N eq.	0.00E+00	3.16E-03	1.67E-03	5.62E-03	-9.27E-02	0.00E+00	3.02E-03	1.17E-03	0.00E+00	-9.71E-02	0.00E+00	3.16E-03	8.99E-03	6.40E-03	-2.14E-02
POCP	kg NMVOC eq.	0.00E+00	5.72E-04	3.11E-04	8.83E-04	-3.68E-02	0.00E+00	5.49E-04	2.32E-04	0.00E+00	-3.99E-02	0.00E+00	5.72E-04	2.14E-03	1.02E-03	-5.66E-03
ADP-minerals & metals*	kg Sb eq.	0.00E+00	1.34E-08	7.74E-09	5.67E-09	-5.53E-04	0.00E+00	1.32E-08	7.05E-09	0.00E+00	-5.55E-04	0.00E+00	1.34E-08	-2.61E-07	6.67E-09	-6.61E-07
ADP-fossil*	MJ	0.00E+00	2.01E+00	1.06E+00	1.20E+00	-2.97E+02	0.00E+00	1.98E+00	9.17E-01	0.00E+00	-3.81E+02	0.00E+00	2.01E+00	1.34E+01	1.41E+00	-1.11E+02
WDP*	m3 world eq. deprived	0.00E+00	2.36E-03	9.14E-02	8.72E-01	-2.27E+00	0.00E+00	2.32E-03	6.24E-03	0.00E+00	-1.96E+00	0.00E+00	2.36E-03	1.32E+00	9.84E-01	-6.88E-01

Results per declared unit (Realistic end-of-life)							Results per declared unit (100% Recycling)					Results per declared unit (100% Incineration)				
Indicator	**Unit**	**C1**	**C2**	**C3**	**C4**	**D**	**C1**	**C2**	**C3**	**C4**	**D**	**C1**	**C2**	**C3**	**C4**	**D**
GWP-GHG[1]	kg CO_2 eq.	0.00E+00	1.59E-01	1.04E+00	9.32E+00	-2.49E+01	0.00E+00	1.57E-01	5.88E-02	0.00E+00	-2.49E+01	0.00E+00	1.59E-01	8.31E-01	1.03E+01	-6.20E+00
Particulate matter (PM)	Disease incidence	0.00E+00	4.05E-09	1.95E-09	6.28E-09	-5.53E-07	0.00E+00	3.91E-09	1.13E-09	0.00E+00	-5.60E-07	0.00E+00	4.05E-09	3.07E-08	7.44E-09	-5.42E-08
Effect from human exposure to U235 (IR)	kBq U235 eq.	0.00E+00	5.31E-04	1.27E-02	1.03E-02	-9.76E-01	0.00E+00	5.21E-04	1.15E-02	0.00E+00	-7.84E-02	0.00E+00	5.31E-04	1.96E-01	1.20E-02	-1.36E+00
Ecosystem Toxicity (ETP-fw)	CTUe	0.00E+00	1.50E+00	5.53E-01	5.17E-01	-2.93E+01	0.00E+00	1.47E+00	4.86E-01	0.00E+00	-9.17E+01	0.00E+00	1.50E+00	2.20E+00	6.14E-01	-1.58E+01
Toxicitiy for human (carcinogenic) (HTP-c)	CTUh	0.00E+00	3.02E-11	2.04E-11	6.23E-11	5.65E-09	0.00E+00	2.97E-11	1.43E-11	0.00E+00	4.15E-09	0.00E+00	3.02E-11	1.43E-10	7.02E-11	-1.26E-09
Toxicity for human (non-carcinogenic) (HTP-nc)	CTUh	0.00E+00	1.35E-09	5.61E-10	6.94E-10	-3.41E-08	0.00E+00	1.33E-09	4.35E-10	0.00E+00	-1.28E-07	0.00E+00	1.35E-09	3.24E-09	8.56E-10	-2.96E-08
Soil Quality Index (SQP)	Dimensionless	0.00E+00	9.93E-01	4.68E-01	3.74E-01	-3.05E+01	0.00E+00	9.76E-01	4.20E-01	0.00E+00	-2.21E+01	0.00E+00	9.93E-01	2.69E+00	4.42E-01	-2.19E+01

[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 CO2 is set to zero.

Abbreviations

ABS	Acrylonitrile-Butadiene-Styrene
AT	Austria
BE	Belgium
CAS No.	Chemical Abstracts Service Number
CEN	European Committee for Standardization
CFC-11 eq.	Chlorofluorocarbon-11 Equivalents
CH	Switzerland
CO2 eq.	Carbon Dioxide Equivalents
DE	Germany
EC No.	European Community Number
EGY	Egypt
EN	European Norm (Standard)
EPD	Environmental Product Declaration
GLO	Global
GPI	General Programme Instructions
ISO	Internation Organization for Standardization
kg	Kilogram
kg C	Kilograms of Carbon
kg CO2 eq.	Kilograms of Carbon Dioxide Equivalent
LCA	Life Cycle Assessment
LCI	Life Cycle Inventory
m3	Cubic Meter
MDF	Medium density fiberboard
MJ	Megajoule
MNR	Module Not Relevant
N eq.	Nitrogen Equivalents
NBR	Nitrile butadiene rubber
ND	Not Declared
ND	Not Declared
NMVOC	Non-Methane Volatile Organic Compounds
P eq.	Phosphorus Equivalents
PCR	Product Category Rules
PEF	Product Environment Footprint
POL	Poland
POM	Polyoxymethylene granulate
PP	Polypropylene
RER	Europe
Sb eq.	Antimony Equivalents
SVHC	Substances of Very High Concern
Environmental impact indicators (EN 15804)	
GWP	Global Warming Potential
GWP-GHG	Global Warming Potential for greenhouse gases (kg CO2 eq)
EP	Eutrophication Potential
GWP-total	Total Global Warming Potential(kg CO2 eq.)
GWP-fossil	Global Warming Potential from fossil (kg CO2 eq.)
GWP-biogenic	Global Warming Potential biogenic (kg CO2 eq.)
GWP-luluc	Global Warming Potential land use and land use change (kg CO2 eq.)
ODP	Ozone Depletion Potential (kg CFC-11 eq.)
AP	Acidification potential,(mol H+ eq.)
EP-freshwater	Freshwater eutrophication potential (kg P eq.)

EP-marine	Marine eutrophication potential (kg N eq.)
EP-terrestrial	Terrestrial eutrophication potential (mol N eq.)
POCP	Photochemical Ozone Creation Potential (kg NMVOC eq.)
ADP	Abiotic Depletion Potential
ADP-minerals&metals	Abiotic depletion potential for non-fossil resources (kg Sb eq.)
ADPF	Abiotic depletion potential for fossil resources (MJ)
WDP	Water Deprivation Potential (m^3)
PERE	Renewable primary energy (excluding as raw materials) (MJ)
PERM	Renewable primary energy used as raw materials (MJ)
PERT	Total renewable primary energy (MJ)
PENRE	Non-renewable primary energy (excluding as raw materials) (MJ)
PENRM	Non-renewable primary energy used as raw materials (MJ)
PENRT	Total use of non-renewable primary energy resources (MJ)
SM	Use of secondary material (kg)
RSF	Use of renewable secondary fuels (MJ)
NRSF	Use of non-renewable secondary fuels (MJ)
FW	Use of net fresh water (m3)
HWD	Hazardous waste disposed (kg)
NHWD	Non-hazardous waste disposed (kg)
RWD	Radioactive waste disposed (kg)
CFR	Components for Reuse (kg)
MR	Material for Recycling (kg)
MER	Materials for Energy Recovery (kg)
EEE	Exported Energy, Electricity (MJ)
EET	Exported Energy, Thermal (MJ)

References

EN 15804	EN 15804:2012+A2:2019/AC:2021, Sustainability of construction works — Environmental Product Declarations — Core rules for the product category of construction products.
EN 14025	EN ISO 14025:2006, Environmental labels and declarations — Type III environmental declarations — Principles and procedures.
ISO 14040	ISO 14040:2006, Environmental management- Life cycle assessment – Principles and framework.
ISO 14044	ISO 14044:2006, Environmental management — Life cycle assessment — Requirements and guidelines.
ISO 15686	ISO 15686 (Parts 1, 2, 7, and 8):2011, Buildings and constructed assets — Service life planning.
Sphera Managed LCA	Managed LCA Content. Content Version 2024.2. Leinfelden-Echterdingen: Sphera Solutions GmbH
ECHA Candidate List	Candidate List of Substances of Very High Concern for Authorisation (ECHA Candidate List), dated 14.06.2023, published in accordance with Article 59(10) of the REACH Regulation. Helsinki: European Chemicals Agency
European Waste Catalogue	European Waste Catalogue, Waste Catalogue Ordinance of 10 December 2001 (Federal Law Gazette I page 3379), which was last amended by Article 3 of the Ordinance of 17 July 2017 (Federal Law Gazette I page 2644
PCR 2019:14	PCR of EPD International in chapter 1: PCR 2019:14 Construction products and construction services. Version 2.0.1. EPD International, 2025 [PCR 2019:14]
GPI	General Programme Instructions of International EPD System. Version 5.0.1
Hansgrohe Group	Background report for Concealed Cisterns, 2026, Version 1.1

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AXOR · hansgrohe

CONTACT

Programme:	The International EPD® System
Programme operator:	EPD International AB
Owner of the Declaration:	Hansgrohe Group
Author of the Life Cycle Assessment:	brands & values GmbH