ENVIRONMENTAL PRODUCT DECLARATION

as per *ISO 14025* and *EN 15804+A2*

Owner of the Declaration	Grundfos Holding A/S
Publisher	Institut Bauen und Umwelt e.V. (IBU)
Programme holder	Institut Bauen und Umwelt e.V. (IBU)
Declaration number	EPD-GRU-20250452-CBI1-EN
Issue date	23.09.2025
Valid to	22.09.2030

KPVS 8015 (250hp)

Grundfos Holding A/S

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General Information

Grundfos Holding A/S

Programme holder

IBU – Institut Bauen und Umwelt e.V.
Hegelplatz 1
10117 Berlin
Germany

Declaration number

EPD-GRU-20250452-CBI1-EN

This declaration is based on the product category rules:

Pumps for liquids and liquids with solids, 01.08.2021
(PCR checked and approved by the SVR)

Issue date

23.09.2025

Valid to

22.09.2030

Dipl.-Ing. Hans Peters
(Chairman of Institut Bauen und Umwelt e.V.)

Florian Pronold
(Managing Director Institut Bauen und Umwelt e.V.)

KPVS 8015 (250hp)

Owner of the declaration

Grundfos Holding A/S
Poul Due Jensens Vej 7
8850 Bjerringbro
Denmark

Declared product / declared unit

One piece of KPVS 8015 pump assembled with 250hp electric motor

Scope:

This declaration applies to 1 piece of KPVS 8015 pump with 250hp electric motor.

The declaration covers all standard configuration models with cast iron pump casing and silicon bronze impeller and wear rings.

The product is assembled in Brookshire, Texas, United States.
The life cycle assessment is based on data collected from the ERP system of the manufacturer, including data from the manufacturing plant.

The owner of the declaration shall be liable for the underlying information and evidence; the IBU shall not be liable with respect to manufacturer information, life cycle assessment data and evidences.

The EPD was created according to the specifications of EN 15804+A2. In the following, the standard will be simplified as *EN 15804*.

Verification

The standard EN 15804 serves as the core PCR
Independent verification of the declaration and data according to ISO 14025:2011
☐ internally ☒ externally

Mrs Kim Allbury,
(Independent verifier)

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Product

Product description/Product definition

The KPVS vertical split case pump is single- stage, double-entry, radial suction, centrifugal volute pump with high energy efficiency and low lifecycle costs.

The split- coupled, split case, vertically mounted frame offers a compact footprint, along with easy installation and maintenance — access to seal and internal components without the need to remove the motor or alignment. The double volute design balances radial loads and reduces vibration, while extending the life of wear rings, shaft seals and bearings. The liquid-cooled sleeve bearing design also adds to increased pump life and uptime.

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Application

•Commercial Systems: Used in air conditioning, water condensing systems, cooling towers, boiler feed systems, district heating, swimming pools, and fountains.
•Industrial Systems: Suitable for process cooling, water condensing systems, boiler feed, industrial heating, wash down, cleaning systems, and industrial processing systems.
•Water Distribution: Used in public waterworks and non-potable water systems.
•Irrigation and Aquaculture: Applicable for field irrigation, sprinkler irrigation, drip-feed irrigation, and aqua farming.

Technical Data

The declared unit is represented by the pump variant whose technical data is provided in the Pump technical data table

Pump technical data for KPVS 8015 (250hp)

Name	Value	Unit
Voltage	460	V
Frequency	60	Hz
Number of phases	3	-
Number of poles	4	-
Rated flow	1000	m^3/h
Rated head	62	m
Nominal power	250	hp
Speed full load	1800	rpm

Performance data of the product according to the harmonised standards, based on provisions for harmonization.

Base materials/Ancillary materials

Main constituents of the KPVS 8015 (250hp) product

Name	Value	Unit
Cast iron	62.2	%
Steel	24	%
Copper	2.9	%
Bronze	2.5	%
Aluminium	1.5	%
Stainless steel	1.1	%
Polymers incl. composites & rubbers	0.5	%
Pallet wood	5.2	%
Other, incl. inert materials	0.1	%

REACH

Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH). At least one partial article (component) contains substances listed in the candidate list (date: 10.11.2024) exceeding 0.1 percentage by mass: **No**
Information of substances of concern in product (SCIP) is available by searching for articles notified under the listed 'SCIP Number' in *ECHA's* SCIP-database.

CMR

This product contains other carcinogenic, mutagenic, reprotoxic (CMR) substances in categories 1A or 1B, which are not on the candidate list (date: 10.11.2024) exceeding 0.1 percentage by mass: **No**

Biocide

Biocide products were added to this product: **No**

Manufacturing Process:

Every KPVS is assembled at a Grundfos plant in Brookshire, Texas, in the US. However, components and subcomponents of the KPVS are produced or sourced from suppliers in China and other US states.
The cast iron parts, such as the pump casing, motor stand, and pump stand, are cast and machined in China. The bronze parts (e.g., impeller and wear rings) are also produced in China, as are the stainless steel shaft and aluminum motor coupling. The pump housing is primed, preassembled, and packed prior to shipping to the US.
The motor is supplied by Nidec Motor Corporation, which is located in St. Louis, Missouri.
The fixing materials, gaskets, and wooden crates for packaging are also supplied from the United States.

Reference service life

In agreement with the Europump (2024) guideline, a reference service life of 10 years was assumed for the purpose of this study, for estimating the energy consumption during the use stage of the pump.

LCA: Calculation rules

Declared Unit

The declared unit is one piece of KPVS 8015 (250hp) pump variant whose gross mass (including packaging) is provided in the table.

Declared unit

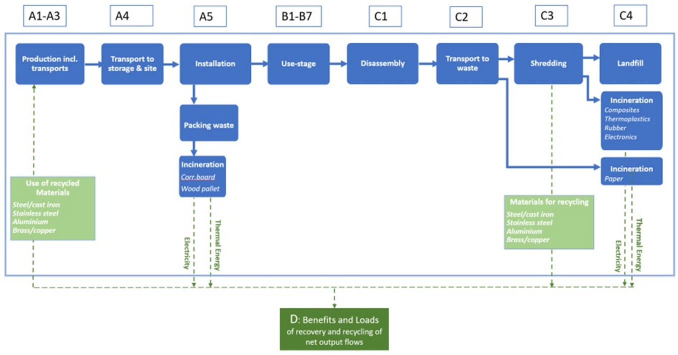
Name	Value	Unit
Declared unit	1	pce.
Mass reference	1304.4	kg/pce

Other declared units are allowed if the conversion is shown transparently.

For IBU core EPDs (where clause 3.6 is part of the EPD): for average EPDs, an estimate of the robustness of the LCA values must be made, e.g. concerning the variability of the production process, geographical representativeness and the influence of background data and preliminary products compared to the environmental impacts caused by the actual production.

System boundary

This EPD is classified as a Cradle-to-Grave and module D. All major steps from the extraction of natural resources to the final disposal of the product are included in the scope of the study, following the modular approach of *EN15804.*
Modules A1-A3 refer to the product stage and include raw materials extraction and processing, transportation, and the manufacturing process. The product stage is included in this study, and according to *EN 15804* the system boundary with nature is set to include those processes that provide the material and energy inputs into the system and the following manufacturing, transport up to the factory gate, as well as the processing of waste arising from those processes. The assembly of the product, as well as the packaging, are included in A3. Wastes and losses are included in the modules where they occur according to the polluter pays principle and the modular approach of *EN 15804*.
Module A4 regards the transportation from the production site to the regional distribution centre, and finally to the construction and product application site.
Module A5 refers to the installation process of the pump including the transportation of packaging waste to the treatment site and the waste treatment of packaging. The use of energy during installation is negligible for the selected functional unit.
Modules B1-B7 refer to the use stage. All use stage modules are assessed in the study, though B1, and B7 are assessed to be zero. The modules B3, B4 and B5 are declared as "MNR" (module not relevant) according to the PCR-B. Module B2 regards to the maintenance within RSL (Reference Service Life). Module B6 regards energy use during the operation of the pump and includes the electricity consumption of the product.
The total electricity consumption over the reference service lifetime is assessed by calculating the average power input using a specified load profile and multiplying it with the number of running hours per year and the number of years of the RSL.
Modules C1-C4 refer to the End-of-life stage. A product reaches the end-of-life of its service life when it no longer provides any functionality. This life cycle stage includes all activities from the end-of-life of the pump until all materials and components are processed, reused, recycled, or disposed of.
C1 regards the dismantling of the pump, and this module is a manual activity. C2 regards the transport to waste processing, C3 refers to the processing (shredding) of waste for recycling, and C4 refers to waste disposal: landfilling and incineration.
Module D refers to the burdens and benefits beyond the system boundaries. According to *EN15804*, module D includes the reuse, recovery and/or recycling potentials, expressed in net impacts and benefits. Contributions to module D come from waste incineration processes in A5 and C4, as well as material (metal) recycling in C3. The specific fractions and net flows are shown in the scenarios section of this declaration.



Geographic Representativeness

Land or region, in which the declared product system is manufactured, used or handled at the end of the product´s lifespan: United States

Comparability

Basically, a comparison or an evaluation of EPD data is only possible if all the data sets to be compared were created according to *EN 15804* and the building context, respectively the product-specific characteristics of performance, are taken into account.
The primary database used for background data is Sphera, while Ecoinvent served as a secondary database.

LCA: Scenarios and additional technical information

Characteristic product properties of biogenic carbon

In the declared net product, there is no biogenic carbon exceeding the reporting requirement of 5% of the mass of the net product. Biogenic carbon in the packaging (corrugated board and wood) is reported below.

Information on biogenic carbon content at factory gate

Name	Value	Unit
Biogenic carbon content in product	-	kg C
Biogenic carbon content in accompanying packaging	29.6	kg C

Note: 1 kg of biogenic carbon is equivalent to 44/12 kg of CO_2.

In the following, technical scenario information is provided for modules A4, A5, B6, C1-C4, and D.

Transport from the gate to the site (A4)

Name	Value	Unit
Litres of fuel	2.1	l/100km
Transport distance *	655	km
Capacity utilisation (including empty runs)	50	%
Gross density of products transported	313.2	kg/m^3

*Transportation distance was determined according to smart EPD PCR Part A, Table 24. Default transport distances by commodity were used on page 72. For machinery goods it is 655km (407miles).

Installation in building (A5)

Name	Value	Unit
Water consumption	-	m^3
Electricity consumption	-	kWh
Packaging waste for incineration (Pallet wood)	68	kg

Maintenance (B2)

The required service materials were considered in the following chart taken from the I&O manual.

Recommended spare parts

Service kit	Recommended spare parts/service kits for...		
	2 years operation	5 years operation	Product number
Shaft seal kit	1 kit	2 kits	
Gasket Kit	1 kit	2 kits	
Wear ring kit	1 kit	2 kits	
Hardware Kit	-	1 kit	
Bearing Kit	-	1 kit	
Impeller Kit	-	1 kit	
Shaft sleeve Kit	-	1 kit	
Motor bearings kit	-	1 kit	

Name	Value	Unit
Maintenance cycle	5	Number/RSL
Other resources (fuels for transport)	4.8	kg

Reference Service Life (RSL): For pump products like the declared unit, an RSL of 10 years can be assumed according to the guideline by Europump (2024). Therefore, to facilitate building reference calculations, an RSL of 10 years is declared. The pump running conditions during the service life are partially specified in the PCR-B: The number of running hours per year is assumed to be 3625 h according to the guideline Europump (2024). The average power input of the pump in the case of a fixed-speed motor was determined in accordance with the aforementioned standard by multiplying the nominal power of the pump motor by the control factor (CF) of 0.9.

Reference service life

Name	Value	Unit
Life Span according to the manufacturer	10	a
Usage conditions: Operating hours per year	3625	h

Operational energy use (B6) and Operational water use (B7)

The Electricity data provided below represents the fixed speed pump model without external vfd (variable frequency drive) by this Declaration.

The calculation of electricity consumption per year resulted from the average power input (Pump technical data table) multiplied by the number of annual running hours (Reference Service life table) and a control factor (CF) of 0.9.
For the calculation of Use stage Operational energy use, a North American consumption (Technology) grid mix was applied.

Name	Value	Unit
Water consumption	-	m^3
Annual Electricity consumption	608212	kWh

End of life (C1-C4)

Material routing at End-of-life stage in North America, C1-C4 (acc. To Smart EPD PCR Part A: Table 3. Product Disposal Assumptions by Region: North America: United States)

Name	Value	Unit
Recycling (Steel, incl. cast iron)	1091.5	kg
Recycling (Bronze/copper)	52	kg
Recycling (Aluminium)	18.4	kg
Recycling (Stainless steel)	10.3	kg
Landfilling (Steel, incl. cast iron)	33.8	kg
Landfilling (Bronze/copper)	18.3	kg
Landfilling (Stainless steel)	3.6	kg
Landfilling (Aluminium)	1	kg
Landfilling (Inert)	7.5	kg

Reuse, recovery and/or recycling potentials (D), relevant scenario information

The net output flow of metals for recycling was calculated as the surplus from C3 Recycling after subtracting Secondary materials applied as input for A1-A3.

Name	Value	Unit
A5, Packaging incineration w/ energy recovery (Electricity)	154	MJ
A5, Packaging incineration w/energy recovery (Thermal energy)	278	MJ
C3, Copper for recycling (net output flow)	52	kg
C3, Stainless Steel for recycling (net output flow)	10.3	kg
C3, Steel for recycling (net output flow)	1091.5	kg
C3, Aluminium for recycling (net output flow)	18.4	kg

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LCA: Results

Characterization model: *EN 15804*, based on EF 3.1. The indicator results for module B6 have been calculated for the entire RSL of 10 years and declared for one piece of KPVS 8015 (250hp) specifically in this Declaration.
Specific GWP index of the electricity mix (emission factor) in modules A1-A3: 0,6177 kg CO_2e/kWh.

DESCRIPTION OF THE SYSTEM BOUNDARY (X = INCLUDED IN LCA; MND = MODULE OR INDICATOR NOT DECLARED; MNR = MODULE NOT RELEVANT)

Product stage			Construction process stage		Use stage							End of life stage				Benefits and loads beyond the system boundaries
Raw material supply	Transport	Manufacturing	Transport from the gate to the site	Assembly	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	De-construction demolition	Transport	Waste processing	Disposal	Reuse-Recovery-Recycling-potential
A1	**A2**	**A3**	**A4**	**A5**	**B1**	**B2**	**B3**	**B4**	**B5**	**B6**	**B7**	**C1**	**C2**	**C3**	**C4**	**D**
X	X	X	X	X	X	X	MNR	MNR	X	X	MND	X	X	X	X	X

RESULTS OF THE LCA - ENVIRONMENTAL IMPACT according to EN 15804+A2: 1 Piece KPVS 8015 pump with 250hp electric motor

Parameter	Unit	A1-A3	A4	A5	B1	B2	B5	B6	C1	C2	C3	C4	D
GWP-total	kg CO_2 eq	4.47E+03	4.4E+01	1.11E+02	0	2.44E+02	0	2.93E+06	0	2.05E+01	3.73E+01	1.43E+00	-1.95E+03
GWP-fossil	kg CO_2 eq	4.55E+03	4.37E+01	2.49E+00	0	2.44E+02	0	2.92E+06	0	2.04E+01	3.72E+01	1.42E+00	-1.93E+03
GWP-biogenic	kg CO_2 eq	-8.26E+01	2.29E-01	1.09E+02	0	4.49E-01	0	3.09E+03	0	1.06E-01	3.94E-02	-1.79E-03	-3.82E+00
GWP-luluc	kg CO_2 eq	7.08E+00	2.31E-02	2.93E-03	0	3.48E-01	0	5.36E+03	0	1.08E-02	6.81E-02	4.39E-03	-1.46E+01
ODP	kg CFC11 eq	1.33E-06	1.03E-11	1.3E-11	0	1.44E-07	0	2.17E-05	0	4.8E-12	2.76E-10	4.64E-12	-3.66E-08
AP	mol H^+ eq	1.88E+01	2.21E-01	2.11E-02	0	1.65E+00	0	4.07E+03	0	1.03E-01	5.18E-02	8.83E-03	-1.14E+01
EP-freshwater	kg P eq	2.08E-02	7.91E-05	3.06E-06	0	7.36E-03	0	9.67E-01	0	3.68E-05	1.23E-05	1.21E-04	-1.07E-03
EP-marine	kg N eq	4.11E+00	1.1E-01	6.7E-03	0	3.05E-01	0	8.79E+02	0	5.13E-02	1.12E-02	2.12E-03	-1.37E+00
EP-terrestrial	mol N eq	4.48E+01	1.21E+00	9.16E-02	0	3.34E+00	0	9.64E+03	0	5.64E-01	1.23E-01	2.31E-02	-1.49E+01
POCP	kg NMVOC eq	1.23E+01	2.42E-01	1.77E-02	0	9.03E-01	0	2.53E+03	0	1.13E-01	3.22E-02	6.58E-03	-4.53E+00
ADPE	kg Sb eq	1.35E-01	6.72E-06	2.33E-07	0	2.65E-02	0	3.43E-01	0	3.13E-06	4.36E-06	9.66E-08	-2.52E-01
ADPF	MJ	5.02E+04	5.62E+02	3.46E+01	0	2.88E+03	0	4.81E+07	0	2.62E+02	6.11E+02	2.33E+01	-1.72E+04
WDP	m^3 world eq deprived	6.85E+02	6.16E-01	1.22E+01	0	4.15E+01	0	6.02E+05	0	2.87E-01	7.66E+00	1.68E-01	-1.1E+03

GWP = Global warming potential; ODP = Depletion potential of the stratospheric ozone layer; AP = Acidification potential of land and water; EP = Eutrophication potential; POCP = Formation potential of tropospheric ozone photochemical oxidants; ADPE = Abiotic depletion potential for non-fossil resources; ADPF = Abiotic depletion potential for fossil resources; WDP = Water (user) deprivation potential)

RESULTS OF THE LCA - INDICATORS TO DESCRIBE RESOURCE USE according to EN 15804+A2: 1 Piece KPVS 8015 pump with 250hp electric motor

Parameter	Unit	A1-A3	A4	A5	B1	B2	B5	B6	C1	C2	C3	C4	D
PERE	MJ	1.2E+04	2.34E+01	1.16E+03	0	5.91E+02	0	1.39E+07	0	1.09E+01	1.77E+02	3.82E+00	-5.35E+03
PERM	MJ	1.16E+03	0	-1.16E+03	0	0	0	0	0	0	0	0	0
PERT	MJ	1.32E+04	2.34E+01	7.64E+00	0	5.91E+02	0	1.39E+07	0	1.09E+01	1.77E+02	3.82E+00	-5.35E+03
PENRE	MJ	5E+04	5.62E+02	3.46E+01	0	2.88E+03	0	4.81E+07	0	2.62E+02	6.11E+02	2.33E+01	-1.72E+04
PENRM	MJ	1.95E+02	0	0	0	0	0	0	0	0	0	0	0
PENRT	MJ	5.02E+04	5.62E+02	3.46E+01	0	2.88E+03	0	4.81E+07	0	2.62E+02	6.11E+02	2.33E+01	-1.72E+04
SM	kg	4.72E+02	0	0	0	1.85E+01	0	0	0	0	0	0	0
RSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0
NRSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0
FW	m^3	1.78E+01	2.52E-02	2.86E-01	0	1.16E+00	0	1.84E+04	0	1.18E-02	2.33E-01	4.94E-03	-3.15E+01

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 resources; SM = Use of secondary material; RSF = Use of renewable secondary fuels; NRSF = Use of non-renewable secondary fuels; FW = Use of net fresh water

RESULTS OF THE LCA – WASTE CATEGORIES AND OUTPUT FLOWS according to EN 15804+A2: 1 Piece KPVS 8015 pump with 250hp electric motor

Parameter	Unit	A1-A3	A4	A5	B1	B2	B5	B6	C1	C2	C3	C4	D
HWD	kg	3.99E+00	9.32E-08	1.58E-08	0	2.06E+00	0	2.85E-02	0	4.34E-08	3.63E-07	5.06E-09	-1.43E-02

NHWD	kg	1.5E+02	5.75E-02	2.18E+00	0	4.42E+01	0	1.65E+04	0	2.68E-02	2.1E-01	6.41E+01	-4.08E+01
RWD	kg	1.11E+00	1.93E-03	1.5E-03	0	7.27E-02	0	4.72E+03	0	8.99E-04	6E-02	3.25E-04	5.76E-02
CRU	kg	0	0	0	0	0	0	0	0	0	0	0	0
MFR	kg	0	0	0	0	8.88E+01	0	0	0	0	1.17E+03	0	0
MER	kg	0	0	0	0	0	0	0	0	0	0	0	0
EEE	MJ	0	0	1.54E+02	0	0	0	0	0	0	0	0	0
EET	MJ	0	0	2.78E+02	0	0	0	0	0	0	0	0	0

HWD = Hazardous waste disposed; NHWD = Non-hazardous waste disposed; RWD = Radioactive waste disposed; CRU = Components for re-use; MFR = Materials for recycling; MER = Materials for energy recovery; EEE = Exported electrical energy; EET = Exported thermal energy

RESULTS OF THE LCA – additional impact categories according to EN 15804+A2-optional:
1 Piece KPVS 8015 pump with 250hp electric motor

Parameter	Unit	A1-A3	A4	A5	B1	B2	B5	B6	C1	C2	C3	C4	D
PM	Disease incidence	3.32E-04	1.24E-06	1.38E-07	0	2.79E-05	0	3.75E-02	0	5.76E-07	4.77E-07	9.99E-08	-1.4E-04
IR	kBq U235 eq	1.04E+02	1.62E-01	2.36E-01	0	7.31E+00	0	3.9E+05	0	7.53E-02	4.96E+00	4.36E-02	6.12E+00
ETP-fw	CTUe	1.35E+04	4.05E+02	1.6E+01	0	1.46E+03	0	8.72E+06	0	1.89E+02	1.29E+02	2.31E+01	-7.99E+03
HTP-c	CTUh	5.53E-06	6.41E-09	1.21E-09	0	4.61E-07	0	3.86E-04	0	2.99E-09	1.71E-08	3.66E-10	-6.19E-06
HTP-nc	CTUh	2.83E-05	2.04E-07	6.12E-08	0	1.59E-06	0	5.63E-03	0	9.5E-08	1.23E-06	9.43E-09	-6.19E-06
SQP	SQP	2.99E+04	8.33E+01	9.37E+00	0	4.6E+02	0	4.51E+06	0	3.88E+01	5.74E+01	3.85E+00	-3.39E+03

PM = Potential incidence of disease due to PM emissions; IR = Potential Human exposure efficiency relative to U235; ETP-fw = Potential comparative Toxic Unit for ecosystems; HTP-c = Potential comparative Toxic Unit for humans (cancerogenic); HTP-nc = Potential comparative Toxic Unit for humans (not cancerogenic); SQP = Potential soil quality index

Disclaimer 1 – for the indicator “Potential Human exposure efficiency relative to U235”. 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 or radioactive waste disposal in underground facilities. Potential ionizing radiation from the soil, radon and from some construction materials is also not measured by this indicator.

Disclaimer 2 – for the indicators “abiotic depletion potential for non-fossil resources”, “abiotic depletion potential for fossil resources”, “water (user) deprivation potential, deprivation-weighted water consumption”, “potential comparative toxic unit for ecosystems”, “potential comparative toxic unit for humans – cancerogenic”, “Potential comparative toxic unit for humans - not cancerogenic”, “potential soil quality index”. The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high as there is limited experience with the indicator.

References

STANDARDS

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.

ISO 21930
ISO 21930:2017 Sustainability in buildings and civil engineering works - core rules for environmental product declarations of constriction products and services

ISO 14025
EN ISO 14025:2011, Environmental labels and declarations — Type III environmental declarations — Principles and procedures.

FURTHER REFERENCES

Software: Sphera LCA for Experts, v. 10.9.1.17
Databases:
---- Sphera Professional database, v. 2025.1
---- Ecoinvent database, v. 3.10

IBU 2021
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PCR-A
Product Category Rules for Building-Related Products and Services, Part A: Calculation Rules for the Life Cycle Assessment and Requirements on the Project Report according to EN 15804+A2:2019, Version 1.4, 2024.

PCR-B
PCR Guidance-Text for Building-Related Products and Services, Part B: Requirements on the EPD for Pumps for liquids and liquids with solids. Version 4, 2023.

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ECO Platform: LCA Calculation Rules and Specifications for EPDs. Version 2.0, December 2024

ECHA's SCIP-database
Registration, Evaluation, Authorisation and Restriction of Chemicals, Information of substances of concern in product
https://echa.europa.eu/scip-database

Data booklet
KPVS Split case pump, 60 Hz. Grundfos Data Booklet. Available from Grundfos Product Center

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