

Environmental product declaration

in accordance with ISO 14025 and EN 15804+A2

Steel pipes, bends and couplers



PIPELIFE 

Owner of the declaration:

Pipelife Sverige AB

Product:

Steel pipes, bends and couplers

Declared unit:

1 kg

This declaration is based on Product Category Rules:

CEN Standard EN 15804:2012+A2:2019 serves as core PCR

NPCR Part A: Construction products and services. Ver. 2.0 March 2021

Program operator:

EPD-Global

Declaration number:

NEPD-17756-22292

Issue date:

23.09.2026

Valid to:

23.09.2031

EPD software:

LCAno EPD generator ID: 1603175

EPD-Global

General information

Product

Steel pipes, bends and couplers

Program operator:

EPD-Global
Post Box 5250 Majorstuen, 0303 Oslo, Norway
Phone: +47 977 22 020
web: www.epd-global.com

Declaration number:

NEPD-17756-22292

This declaration is based on Product Category Rules:

CEN Standard EN 15804:2012+A2:2019 serves as core PCR
NPCR Part A: Construction products and services. Ver. 2.0 March 2021

Statement of liability:

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

Declared unit:

1 kg Steel pipes, bends and couplers

Declared unit with option:

A1, A2, A3, A4, A5, C1, C2, C3, C4, D

Functional unit:

Not relevant

General information on verification of EPD from EPD tools:

Independent verification of data, other environmental information and the declaration according to ISO 14025:2010, § 8.1.3 and § 8.1.4. Verification of each EPD is made according to EPD-Global's guidelines for verification and approval requiring that tools are i) integrated into the company's environmental management system, ii) the procedures for use of the EPD tool are approved by EPD-Global, and iii) the process is reviewed annually by an independent third party verifier. See Appendix G of EPD-Global's General Programme Instructions for further information on EPD tools

Verification of EPD tool:

Independent third party verification of the EPD tool, background data and test-EPD in accordance with EPDNorway's procedures and guidelines for verification and approval of EPD tools. Approval number: NEPDT49.

Third party verifier:

Vito D'Incognito, Take Care International, Take Care International

(no signature required)

Owner of the declaration:

Pipelife Sverige AB
Contact person: Yvette Lennartsson
Phone: +46 513 22114
e-mail: yvette.lennartsson@pipelife.com

Manufacturer:

Pipelife Sverige AB

Place of production:

Pipelife Sverige AB
Box 50
SE-524 02 Ljung , Sweden

Management system:

EN ISO 9001:2015 and EN ISO 14001:2015

Organisation no:

SE556087042901

Issue date:

23.09.2026

Valid to:

23.09.2031

Year of study:

2026

Comparability:

EPDs of construction products may not be comparable if they do not comply with EN 15804 and are not viewed in a building context.

Development and verification of EPD:

The declaration is created using EPD tool lca.tools ver EPD2022.03, developed by LCA.no. The EPD tool is integrated in the company's management system, and has been approved by EPD-Global.

Developer of EPD: Yvette Lennartsson

Reviewer of company-specific input data and EPD: Bjørn Svensson

Approved:



Håkon Hauan, CEO EPD-Global

Product

Product description:

Galvanized threaded and coated steel conduit and bends for very high strength requirements, threaded ends, with a screwed-on coupling.
Approved according to EN 50 086-1 and EN 50 086-2-1
Approved for casting in concrete.

Product specification

Product related data to be found at Pipelife Sverige AB:s webpages at <https://www.pipelife.se/> and <https://www.pipelife.dk/>

Materials	kg	%
Metal - Steel	1.00	100.00
Total	1.00	100.00

Technical data:

Market:

Europe, with scenario for the Swedish market

Reference service life, product

> 100

Reference service life, building or construction works

Not relevant

LCA: Calculation rules

Declared unit:

1 kg Steel pipes, bends and couplers

Cut-off criteria:

All major raw materials and all the essential energy is included. The production processes for raw materials and energy flows with very small amounts (less than 1%) are not included. These cut-off criteria do not apply for hazardous materials and substances.

Allocation:

The allocation is made in accordance with the provisions of EN 15804:2012+A2:2019. Incoming energy and water and waste production in-house is allocated equally among all products through mass allocation. Effects of primary production of recycled materials is allocated to the main product in which the material was used. The recycling process and transportation of the material is allocated to this analysis.

Data quality:

Specific data for the product composition are provided by the manufacturer. The data represent the production of the declared product and were collected for EPD development in the year of study. Background data is based on EPDs according to EN 15804 and different LCA databases. The data quality of the raw materials in A1 is presented in the table below.

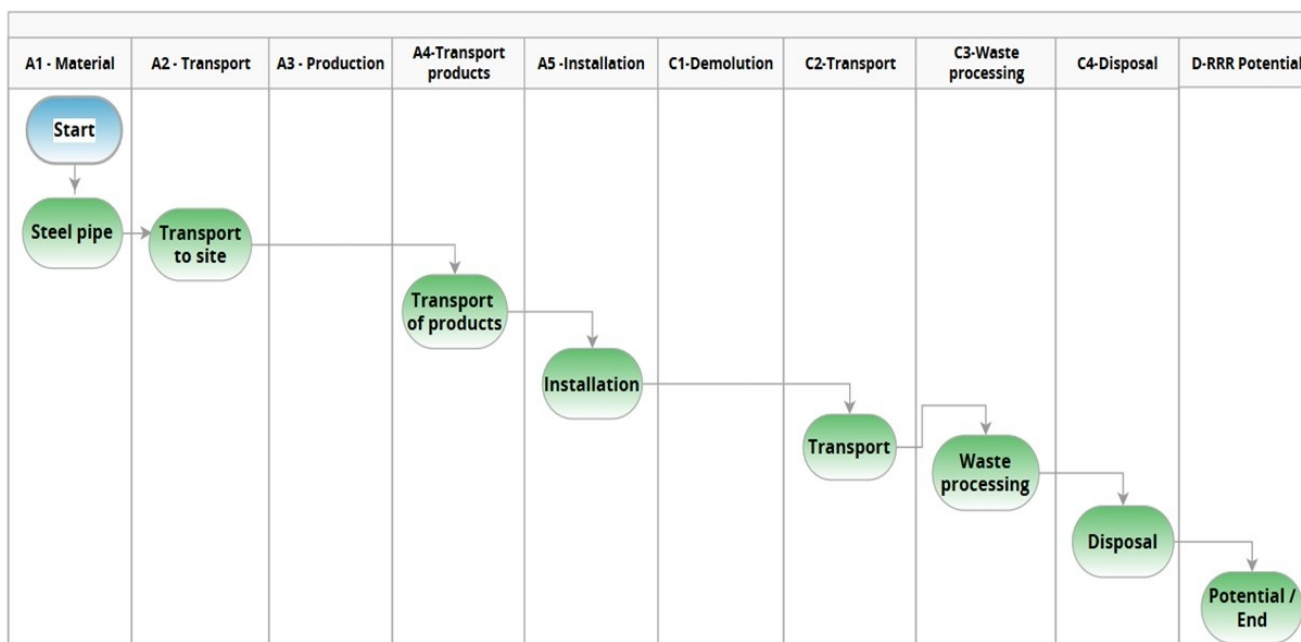
Materials	Source	Data quality	Year
Metal - Steel	EPD-IES-0031530:001	EPD	2026

System boundaries (X=included, MND=module not declared, MNR=module not relevant)

Product stage			Construction installation stage		Use stage								End of life stage				Beyond the system boundaries
Raw materials	Transport	Manufacturing	Transport	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	MND	MND	MND	MND	MND	MND	MND		X	X	X	X	X

System boundary:

EPD Process A1 – D Steel pipes



Additional technical information:

LCA: Scenarios and additional technical information

The following information describe the scenarios in the different modules of the EPD.

C1 - 0 "Demolution", refer to EN 15804+A2, NPCR 019 Piping systems

Transport from production place to user (A4)	Capacity utilisation (incl. return) %	Distance (km)	Fuel/Energy Consumption	Unit	Value (Liter/tonne)
Truck, 16-32 tonnes, EURO 6 (km)	36.7 %	100.00	0.043	l/tkm	4.30
Assembly (A5)	Unit	Value			
Product loss during installation (percentage of cable pipe)	Units	0.05			
Transport to waste processing (C2)	Capacity utilisation (incl. return) %	Distance (km)	Fuel/Energy Consumption	Unit	Value (Liter/tonne)
Truck, 16-32 tonnes, EURO 6 (km)	36.7 %	100.00	0.043	l/tkm	4.30
Waste processing (C3)	Unit	Value			
Steel to recycling (kg)	kg	0.80			
Disposal (C4)	Unit	Value			
Waste, steel, to landfill (kg)	kg	0.20			
Benefits and loads beyond the system boundaries (D)	Unit	Value			
Substitution of primary steel with net scrap (kg)	kg	0.6933			

LCA: Results

The LCA results are presented below for the declared unit defined on page 2 of the EPD document.

Environmental impact												
Indicator		Unit	A1	A2	A3	A4	A5	C1	C2	C3	C4	D
	GWP-total	kg CO ₂ -eq	2.63E+00	4.21E-01	0	1.63E-02	1.54E-01	0	1.63E-02	0.00E+00	8.57E-04	-7.64E-01
	GWP-fossil	kg CO ₂ -eq	2.62E+00	4.20E-01	0	1.63E-02	1.54E-01	0	1.63E-02	0.00E+00	8.56E-04	-7.63E-01
	GWP-biogenic	kg CO ₂ -eq	8.34E-03	1.74E-04	0	6.76E-06	4.26E-04	0	6.76E-06	0.00E+00	7.28E-07	-4.21E-04
	GWP-luluc	kg CO ₂ -eq	1.00E-03	1.50E-04	0	5.81E-06	5.82E-05	0	5.81E-06	0.00E+00	1.68E-07	-3.42E-04
	ODP	kg CFC11 -eq	1.77E-09	9.52E-08	0	3.70E-09	5.24E-09	0	3.70E-09	0.00E+00	4.17E-10	-2.42E-08
	AP	mol H ⁺ -eq	6.43E-03	1.21E-03	0	4.69E-05	3.87E-04	0	4.69E-05	0.00E+00	8.36E-06	-3.79E-03
	EP-FreshWater	kg P -eq	3.73E-05	3.36E-06	0	1.31E-07	2.05E-06	0	1.31E-07	0.00E+00	6.39E-09	-4.69E-05
	EP-Marine	kg N -eq	1.80E-03	2.39E-04	0	9.29E-06	1.03E-04	0	9.29E-06	0.00E+00	3.13E-06	-7.85E-04
	EP-Terrestrial	mol N -eq	1.95E-02	2.67E-03	0	1.04E-04	1.12E-03	0	1.04E-04	0.00E+00	3.45E-05	-8.02E-03
	POCP	kg NMVOC -eq	6.25E-03	1.02E-03	0	3.98E-05	3.68E-04	0	3.98E-05	0.00E+00	9.88E-06	-3.82E-03
	ADP-minerals&metals ¹	kg Sb -eq	5.06E-07	1.16E-05	0	4.51E-07	6.52E-07	0	4.51E-07	0.00E+00	7.58E-09	-1.32E-05
	ADP-fossil ¹	MJ	2.47E+01	6.36E+00	0	2.47E-01	1.58E+00	0	2.47E-01	0.00E+00	2.76E-02	-6.42E+00
	WDP ¹	m ³	1.73E-01	6.15E+00	0	2.39E-01	3.43E-01	0	2.39E-01	0.00E+00	5.82E-02	3.96E+01

GWP-total = Global Warming Potential total; 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

"Reading example: 9.0 E-03 = 9.0*10⁻³ = 0.009"

1. 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

Remarks to environmental impacts

Additional environmental impact indicators

Indicator	Unit	A1	A2	A3	A4	A5	C1	C2	C3	C4	D
 PM	Disease incidence	0.00E+00	2.57E-08	0	1.00E-09	1.40E-09	0	1.00E-09	0.00E+00	1.78E-10	-6.33E-08
 IRP ²	kgBq U235 -eq	0.00E+00	2.78E-02	0	1.08E-03	1.50E-03	0	1.08E-03	0.00E+00	1.20E-04	2.74E-03
 ETP-fw ¹	CTUe	0.00E+00	4.71E+00	0	1.83E-01	2.55E-01	0	1.83E-01	0.00E+00	1.37E-02	-4.25E+01
 HTP-c ¹	CTUh	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	-3.67E-09
 HTP-nc ¹	CTUh	0.00E+00	5.15E-09	0	2.00E-10	2.78E-10	0	2.00E-10	0.00E+00	8.00E-12	7.98E-08
 SQP ¹	dimensionless	0.00E+00	4.45E+00	0	1.73E-01	2.45E-01	0	1.73E-01	0.00E+00	1.01E-01	-4.80E-01

PM = Particulate Matter emissions; IRP = Ionizing radiation – human health; ETP-fw = Eco toxicity – freshwater; HTP-c = Human toxicity – cancer effects; HTP-nc = Human toxicity – non cancer effects; SQP = Potential Soil Quality Index (dimensionless)

"Reading example: 9.0 E-03 = 9.0×10^{-3} = 0.009"

1. 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
2. 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.

Resource use												
Indicator	Unit	A1	A2	A3	A4	A5	C1	C2	C3	C4	D	
 PERE	MJ	1.18E+00	9.10E-02	0	3.54E-03	6.41E-02	0	3.54E-03	0.00E+00	4.25E-04	-5.21E-01	
 PERM	MJ	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
 PERT	MJ	1.18E+00	9.10E-02	0	3.54E-03	6.41E-02	0	3.54E-03	0.00E+00	4.25E-04	-5.21E-01	
 PENRE	MJ	2.48E+01	6.36E+00	0	2.47E-01	1.58E+00	0	2.47E-01	0.00E+00	2.76E-02	-6.42E+00	
 PENRM	MJ	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
 PENRT	MJ	2.48E+01	6.36E+00	0	2.47E-01	1.58E+00	0	2.47E-01	0.00E+00	2.76E-02	-6.42E+00	
 SM	kg	1.07E-01	0.00E+00	0	0.00E+00	5.34E-03	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
 RSF	MJ	1.34E-03	3.26E-03	0	1.26E-04	2.43E-04	0	1.26E-04	0.00E+00	8.79E-06	2.75E-02	
 NRSF	MJ	0.00E+00	1.16E-02	0	4.52E-04	6.29E-04	0	4.52E-04	0.00E+00	2.53E-05	8.02E-01	
 FW	m ³	7.37E-03	6.80E-04	0	2.64E-05	4.07E-04	0	2.64E-05	0.00E+00	3.29E-05	-1.61E-03	

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 materials; RSF = Use of renewable secondary fuels; NRSF = Use of non-renewable secondary fuels; FW = Net use of fresh water

"Reading example: 9.0 E-03 = 9.0*10⁻³ = 0.009"

End of life - Waste												
Indicator	Unit	A1	A2	A3	A4	A5	C1	C2	C3	C4	D	
	HWD	kg	5.08E-03	3.28E-04	0	1.27E-05	2.72E-04	0	1.27E-05	0.00E+00	0.00E+00	-3.97E-03
	NHWD	kg	4.19E-02	3.09E-01	0	1.20E-02	2.88E-02	0	1.20E-02	0.00E+00	2.00E-01	-3.12E-01
	RWD	kg	1.21E-04	4.33E-05	0	1.68E-06	8.37E-06	0	1.68E-06	0.00E+00	0.00E+00	2.10E-06

HWD = Hazardous waste disposed; NHWD = Non-hazardous waste disposed; RWD = Radioactive waste disposed

"Reading example: 9.0 E-03 = 9.0×10^{-3} = 0.009"

End of life - Output flow												
Indicator	Unit	A1	A2	A3	A4	A5	C1	C2	C3	C4	D	
	CRU	kg	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	MFR	kg	0.00E+00	0.00E+00	0	0.00E+00	4.00E-02	0	0.00E+00	8.00E-01	0.00E+00	0.00E+00
	MER	kg	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	EEE	MJ	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	EET	MJ	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00

CRU = Components for re-use; MFR = Materials for recycling; MER = Materials for energy recovery; EEE = Exported energy electrical; EET = Exported energy thermal

"Reading example: 9.0 E-03 = 9.0×10^{-3} = 0.009"

Biogenic Carbon Content		
Indicator	Unit	At the factory gate
Biogenic carbon content in product	kg C	0.00E+00
Biogenic carbon content in accompanying packaging	kg C	0.00E+00

Note: 1 kg biogenic carbon is equivalent to 44/12 kg CO₂

Additional requirements

Greenhouse gas emissions from the use of electricity in the manufacturing phase

National production mix from import, low voltage (production of transmission lines, in addition to direct emissions and losses in grid) of applied electricity for the manufacturing process (A3).

Dangerous substances

The product contains no substances given by the REACH Candidate list.

Indoor environment

Not relevant

Additional Environmental Information

Additional environmental impact indicators required in NPCR Part A for construction products

Indicator	Unit	A1	A2	A3	A4	A5	C1	C2	C3	C4	D
GWPIOBC	kg CO ₂ -eq	0.00E+00	4.21E-01	0	1.63E-02	2.27E-02	0	1.63E-02	0.00E+00	8.57E-04	-7.64E-01

GWP-IOBC: Global warming potential calculated according to the principle of instantaneous oxidation. In order to increase the transparency of biogenic carbon contribution to climate impact, the indicator GWP-IOBC is required as it declares climate impacts calculated according to the principle of instantaneous oxidation. GWP-IOBC is also referred to as GWP-GHG in context to Swedish public procurement legislation.

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