

ENVIRONMENTAL PRODUCT DECLARATION

as per ISO 14025 and EN 15804+A2

Owner of the Declaration	ELVALHALCOR S.A.
Publisher	Institut Bauen und Umwelt e.V. (IBU)
Programme holder	Institut Bauen und Umwelt e.V. (IBU)
Declaration number	EPD-ELV-20240353-CBA1-EN
Issue date	29/04/2025
Valid to	28/04/2030

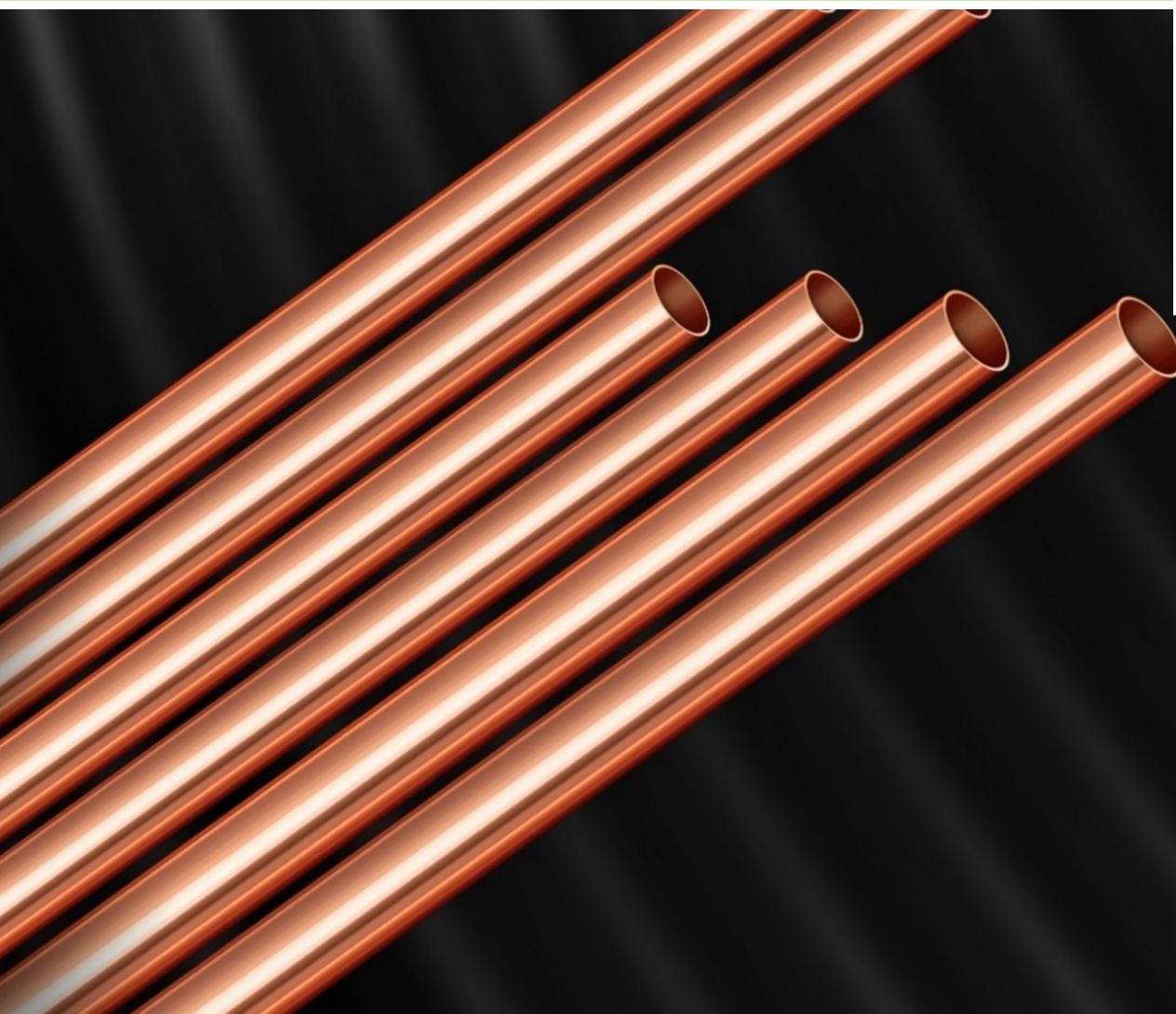
TALOS®HH_OD.LTE.30mm
ELVALHALCOR S.A.

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ECO PLATFORM

EPD
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General Information

ELVALHALCOR S.A.

Programme holder

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

Declaration number

EPD-ELV-20240353-CBA1-EN

This declaration is based on the product category rules:

Metal pipes for domestic installations, 01/08/2021
(PCR checked and approved by the SVR)

Issue date

29/04/2025

Valid to

28/04/2030



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



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

TALOS®HH_OD.LTE.30mm

Owner of the declaration

ELVALHALCOR S.A.
62km Athens - Lamia National Road 1
GR32011 Oinofyta
Greece

Declared product / declared unit

1 kg of TALOS®HH_OD.LTE.30mm.

Scope:

This core EPD relates to 1 kg of TALOS®HH_OD.LTE.30mm.
The pipe is manufactured at ELVALHALCOR's facility in Oinofyta, which is located in the Viotia region of Greece, specifically at the 62nd km of Athens-Lamia National Road.

The core EPD is representative for the year 2021.

The results in this core EPD were calculated using an LCA-tool certified by IBU in 2025.

Owner of the EPD: ELVALHALCOR S.A.

Owner of the EPD Tool: ELVALHALCOR S.A.


Originator of the pilot EPD: LCA practitioner Sphera Solutions

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	
<input type="checkbox"/>	internally
<input checked="" type="checkbox"/>	externally



Dr.-Ing. Nikolay Minkov,
(Independent verifier)

Product

Product description/Product definition

TALOS®HH_OD.LTE.30mm is a type of straight copper tube that comes in five different variations:

- TALOS®
- TALOS® SPRINKLER
- TALOS® MED
- TALOS® ACR
- INDUSTRIAL COPPER TUBES

These variations are designed for different applications and have varying diameters. However, these variations are considered analogous since the functional unit is 1kg and allocations have been made based on mass.

For the placing on the market of the product in the European Union/European Free Trade Association (EU/EFTA) (except for Switzerland), *Regulation (EU) No. 305/2011 (CPR)* applies. The product needs a declaration of performance taking into consideration:

Products according to the CPR based on a hEN			
Product	hEN	DOP	CE*
TALOS®	EN 1057:2006	CPR	Yes
TALOS® SPRINKLER	EN 1057:2006	CPR	Yes

* The CE is for the copper tube

For the application and use the respective national provisions apply.

Regarding the fifth listed product, no harmonisations have been declared.

TALOS® copper tubes for the sanitary and heating industry are produced according to *EN 1057* and provide substantial advantages as they are easy to install with cost-effectiveness and provide safe and secure operation, resistant to high operating pressures and temperature, completely air -and water- tight and retain their physical and mechanical properties unchanged over time, stable and self-supporting.

TALOS® SPRINKLER copper tubes are the ideal material for the construction of fire extinguishing installations in different areas, such as: hospitals, factories, warehouses, schools, museums, restaurants, hotels, sports facilities, offices, shops, car parks, houses. TALOS® SPRINKLER copper tubes, according to *EN 1057*.

Products not harmonised in accordance with the CPR but in accordance with other provisions for harmonisation of the EU:

Product	hEN	Certificate	CE	Comments
TALOS® MED	EN 13348	PED	n/a	CE is not applicable because the Quality Management System for materials is certified following Pressure Equipment Directive 2014/68/EU
TALOS® ACR	EN 12735	PED	n/a	

TALOS® MED copper tubes, can withstand high operating pressures with unlimited durability, thanks to the natural strength of copper, hence they are the ideal choice for the construction of medical gases distribution networks. TALOS® MED copper tubes are manufactured according to the requirements of standard *EN 13348*. They are supplied with end caps to prevent contamination by foreign matter intrusion during storage or transportation.

TALOS® ACR copper tubes for refrigeration and air conditioning applications are produced according to *EN 12735 parts 1 & 2* and are certified according to the requirements of the *Pressure Equipment Directive (PED) 2014/68/EU*, as well as the German regulation *AD2000/W6* for pressure vessels. TALOS® ACR copper tubes have high thermal conductivity, stable mechanical properties covering an extensive temperature range, are chemically 'inert' against HFCs, HFOs and natural refrigerants, High purity of internal surface, Smooth internal surface enhancing flow rate, Excellent weldability and 'cold formability'.

INDUSTRIAL COPPER TUBES specifically designed for further processing intended for various applications such as Fittings, Filters, Capillary Tubes, Cable Shoes and Lugs, fully customized to meet customer requirements and needs. The tubes are supplied in a wide range of dimensions according to International standards (*EN, ASTM, JIS*) and customer specifications and requirements.

Quality Marks

- **TALOS®**: BSI, AFNOR, NSAI, AENOR, RAL / DVGW, KIWA / GASTEC-QA, SITAC, STF VTT, GOST, VIK
- **TALOS® SPRINKLER**: BSI, AFNOR, NSAI, AENOR, RAL / DVGW, KIWA / GASTEC-QA, SITAC, STF VTT, GOST, VIK
- **TALOS® MED**: BSI
- **TALOS® ACR**: AENOR, TÜV, GL, VIK

Application

The products covered in the EPD have the following applications:

- **TALOS®**: Sanitary and Heating
- **TALOS® SPRINKLER**: Fire Extinguishing Installations
- **TALOS® MED**: Medical Gases Distribution Networks
- **TALOS® ACR**: Refrigeration and Air Conditioning
- **INDUSTRIAL COPPER TUBES**: General Industrial Applications

Technical Data

The performance data of the product according to the harmonized norms, based on the harmonization provisions above apply.

The relevant technical specifications according to the *PCR Part B* are given in the table below.

Product Name	Temper	EN 1057 / EN 12735 Designation	Min. Tensile Strength Rm (MPa)	Min. Elongation A%
TALOS®	Half Hard	R-250	250	20 or 30*
TALOS® SPRINKLER	Half Hard	R-250	250	20 or 30*
TALOS® MED	Half Hard	R-250	250	30
TALOS® ACR	Half Hard	R-250	250	30
INDUSTRIAL COPPER TUBES	Half Hard	R-250	250	20 or 30*

* Depending on the dimension

TALOS®

Diameter x thickness d x s (mm)	Internal diameter (mm)	Nominal copper weight (kg/m)	External surface area (m ² /m)	Filling volume (l/m)	Straight lengths [m]
10 x 0,70	8,6	0,182	0,031	0,058	3
10 x 1,00	8	0,252	0,031	0,05	4
12 x 0,70	10,6	0,221	0,038	0,088	3
12 x 1,00	10	0,308	0,038	0,079	4
15 x 0,70	13,6	0,28	0,047	0,145	3
15 x 0,80	13,4	0,318	0,047	0,141	3
15 x 1,00	13	0,391	0,047	0,133	4
18 x 0,80	16,4	0,384	0,057	0,211	3
18 x 1,00	16	0,475	0,057	0,201	4
22 x 0,80	20,4	0,474	0,069	0,327	3
22 x 1,00	20	0,587	0,069	0,314	4
22 x 1,50	19	0,86	0,069	0,284	4
28 x 0,90	26,2	0,682	0,088	0,539	3
28 x 1,00	26	0,755	0,088	0,531	4
28 x 1,50	25	1,111	0,088	0,491	4

TALOS® SPRINKLER

Diameter x thickness d x s (mm)	Internal diameter (mm)	Nominal copper weight (kg/m)	External surface area (m ² /m)	Filling volume (l/m)	Straight lengths
15 x 1,00	13	0,391	0,047	0,133	Straight lengths of 4m
18 x 1,00	16	0,475	0,057	0,201	
22 x 1,00	20	0,587	0,069	0,314	
28 x 1,00	26	0,755	0,088	0,531	

TALOS® MED

Diameter x thickness d x s (mm)	Internal diameter (mm)	Nominal copper weight (kg/m)	External surface area (m ² /m)	Filling volume (l/m)	Straight lengths
6 x 1,00	4	0,14	0,019	0,013	Straight lengths of 5m
8 x 1,00	6	0,196	0,025	0,028	
10 x 1,00	8	0,252	0,031	0,05	
12 x 1,00	10	0,308	0,038	0,079	
15 x 1,00	13	0,391	0,047	0,133	
18 x 1,00	16	0,475	0,057	0,201	
22 x 1,00	20	0,587	0,069	0,314	
28 x 1,00	26	0,755	0,088	0,531	

TALOS® ACR

Copper Tube External Diameter (mm)	Copper Tube Wall Thickness (kg/m)	Nominal Weight (kg/m)	Straight lengths
9,52	0,75	0,184	Straight lengths of 5m
12,7	0,8	0,266	
15,87	0,8	0,337	
19,05	0,8	0,408	
22,22	1	0,594	
28,57	1	0,771	

Data about performance are not required since this is a core EPD.

Base materials/Ancillary materials

Product	Copper Content	Phosphorus Concentration	Classification*
TALOS®	min 99.90%	0,015-0,04 %	CW024A (Cu-DHP)
TALOS® SPRINKLER			
TALOS® MED			
TALOS® ACR			
INDUSTRIAL COPPER TUBES			

* According to the European alloy coding system.

Reference service life

The documentation of the RSL is not required for the EPDs calculated using the LCA tool because the EPDs scope does not cover the use phase. The following are the declared modules: A1-A3, C1-C4 and D.

LCA: Calculation rules

Declared Unit

For the product family TALOS®HH_OD.LTE.30mm, the declared unit is 1 kg of copper pipe.

Declaration type with respect to the manufacturer:

1c) declaration of an average product from one plant of one manufacturer.

Declaration type with respect to life cycle stages covered according to *clause 5.2 EN 15804+A2 (EN 15804)* is cradle to gate with modules C1–C4 and module D.

Declared unit and mass reference

Name	Value	Unit
Declared unit	1	kg
Gross density	8.96	kg/m ³

The TALOS®HH_OD.LTE.30mm family includes various product categories, which necessitated an estimation of the robustness of the LCA values through a variability analysis. Key

production processes were evaluated for variability, with electrical energy consumption identified as the primary influencing factor. A ±10% variation in energy was applied to the relevant key processes. This resulted in a maximum change of 3.5% in Ozone Depletion Potential (ODP) and a variation of ±1.9% in Global Warming Potential (GWP-total), while other environmental impacts showed minimal variability and remained lower than ODP.

System boundary

The system boundaries of the present LCA and related model follow the modular structure defined by EN 15804+A2 (EN 15804).

The modules taken into account are the following:

- A1: production of preliminary products;
- A2: transport to the plant;
- A3: production incl. provision of energy, production of packaging as well as auxiliaries and consumables, and waste treatment;
- C1: deconstruction and demolition;
- C2: transport to the waste treatment plant;

- C3: waste processing;
- C4: disposal;
- D: recycling potential.

One scenario is considered: 100% recycling (C3). For this reason, the impact of the C4 module will be zero.

According to *EN 15804*, any declared benefits and loads from net flows leaving the product system that have not been allocated as co-products (which is the case for flows from A1-A3) and that have passed the end-of-waste state (processing up to the end-of-waste state or disposal of final residues during the product stage) shall be included in module D.

Emissions from the raw material recycling process at the end of product life were considered in Module D.

LCA: Scenarios and additional technical information

Characteristic product properties of biogenic carbon

In the case of a product with raw materials containing biogenic carbon, emissions of equivalent biogenic CO₂ have been calculated and considered. The biogenic carbon content of the packaging is related to the amount of pallets, papers, and cardboard consumed, which is given as a yearly amount and then scaled to 1 kg of product.

The products that will be verified with this LCA tool do not contain biogenic carbon.

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

Information on describing the biogenic carbon content at factory gate

Name	Value	Unit
Biogenic carbon content in product	-	kg C
Biogenic carbon content in accompanying packaging	0.00108	kg C

Geographic Representativeness

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

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 Managed LCA Content (GaBi database 2023.2) has been used.

Modules declared: A1, A2, A3, C1, C2, C3, C4, and D.

End of life (C1-C4)

The end-of-life stage includes:

- C1 – deconstruction and demolition
- C2 – transport to end of life
- C3 – waste processing for recycling
- C4 - disposal

A 100% recycling scenario is considered, thus 1kg of product is fully sent to recycling.

Name	Value	Unit
Recycling	1	kg

LCA: Results

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	MND	MND	MND	MND	MNR	MNR	MNR	MND	MND	X	X	X	X	X

RESULTS OF THE LCA - ENVIRONMENTAL IMPACT according to EN 15804+A2: 1 kg TALOS@HH_OD.LTE.30mm

Parameter	Unit	A1	A2	A3	C1	C2	C3	C4	D
GWP-total	kg CO ₂ eq	1.61E+00	1.28E-01	3.07E-01	4.79E-04	1.25E-02	2.19E-01	0	-1.02E+00
GWP-fossil	kg CO ₂ eq	1.6E+00	1.27E-01	2.7E-01	4.78E-04	1.25E-02	2.18E-01	0	-1.03E+00
GWP-biogenic	kg CO ₂ eq	2.15E-03	1.28E-04	3.75E-02	5.02E-07	1.33E-05	1.17E-03	0	6.08E-03
GWP-luluc	kg CO ₂ eq	3.05E-03	5.19E-06	2.53E-05	2.87E-08	7.58E-07	3.15E-05	0	-3.68E-03
ODP	kg CFC11 eq	1.39E-11	1.19E-14	2.35E-13	5.4E-17	1.42E-15	2.49E-12	0	-4.18E-12
AP	mol H ⁺ eq	1.68E-02	1.8E-03	4.58E-04	2.3E-06	7.93E-05	5.76E-04	0	-1.86E-02
EP-freshwater	kg P eq	2.19E-06	2.94E-08	9.99E-07	1.11E-10	2.92E-09	5.23E-07	0	-1.93E-06
EP-marine	kg N eq	1.2E-03	7.02E-04	1.99E-04	1.09E-06	3.92E-05	1.12E-04	0	-1.01E-03
EP-terrestrial	mol N eq	1.27E-02	7.7E-03	2.16E-03	1.19E-05	4.32E-04	1.19E-03	0	-1.05E-02
POCP	kg NMVOC eq	4.04E-03	1.76E-03	6.83E-04	3.08E-06	7.66E-05	3.49E-04	0	-3.55E-03
ADPE	kg Sb eq	6.81E-04	1.36E-09	1.15E-07	5.66E-12	1.49E-10	2.16E-08	0	-8.34E-04
ADPF	MJ	2.26E+01	1.67E+00	1.85E+00	6.56E-03	1.73E-01	4.09E+00	0	-1.03E+01
WDP	m ³ world eq deprived	8.88E-01	2.58E-04	1.16E-01	1.1E-06	2.9E-05	1.62E-01	0	-6.95E-01

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 kg TALOS@HH_OD.LTE.30mm

Parameter	Unit	A1	A2	A3	C1	C2	C3	C4	D
PERE	MJ	6.79E+00	9.3E-03	2.59E-01	4.24E-05	1.12E-03	1.69E+00	0	-3.27E+00
PERM	MJ	0	0	4.61E-02	0	0	0	0	0
PERT	MJ	6.79E+00	9.3E-03	3.05E-01	4.24E-05	1.12E-03	1.69E+00	0	-3.27E+00
PENRE	MJ	2.26E+01	1.68E+00	1.74E+00	6.59E-03	1.74E-01	4.1E+00	0	-1.03E+01
PENRM	MJ	0	0	1.06E-01	0	0	0	0	0
PENRT	MJ	2.26E+01	1.68E+00	1.85E+00	6.59E-03	1.74E-01	4.1E+00	0	-1.03E+01
SM	kg	7.35E-01	0	0	0	0	0	0	2.65E-01
RSF	MJ	0	0	0	0	0	0	0	0
NRSF	MJ	0	0	0	0	0	0	0	0
FW	m ³	1.62E-02	1.13E-05	2.12E-03	4.93E-08	1.3E-06	4.45E-03	0	-1.2E-02

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 kg TALOS@HH_OD.LTE.30mm

Parameter	Unit	A1	A2	A3	C1	C2	C3	C4	D
HWD	kg	1.65E-09	4.04E-12	5.37E-10	1.21E-14	3.2E-13	-5.46E-11	0	-2.05E-10
NHWD	kg	4.42E-01	1.61E-04	5.15E-02	6.56E-07	1.73E-05	1.06E-01	0	-4.37E-01
RWD	kg	4.9E-04	2.44E-06	3.28E-05	1.1E-08	2.9E-07	4.45E-04	0	-2.14E-05
CRU	kg	0	0	0	0	0	0	0	0
MFR	kg	0	0	1.07E-02	0	0	1E+00	0	0
MER	kg	0	0	2.8E-02	0	0	0	0	0
EEE	MJ	0	0	0	0	0	0	0	0
EET	MJ	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 kg TALOS®HH_OD.LTE.30mm**

Parameter	Unit	A1	A2	A3	C1	C2	C3	C4	D
PM	Disease incidence	1.38E-07	3.32E-08	2.88E-09	2.61E-11	2.76E-10	5.07E-09	0	-1.51E-07
IR	kBq U235 eq	6.78E-02	3.56E-04	5.13E-03	1.62E-06	4.28E-05	7.39E-02	0	-2.64E-03
ETP-fw	CTUe	9.92E+00	1.19E+00	1.17E+00	4.73E-03	1.25E-01	1.12E+00	0	-8.78E+00
HTP-c	CTUh	7.99E-10	2.19E-11	1.11E-09	8.68E-14	2.3E-12	7.21E-11	0	-7.86E-10
HTP-nc	CTUh	6.18E-08	7.03E-10	3.4E-08	2.81E-12	7.4E-11	2.59E-09	0	-6.89E-08
SQP	SQP	1.2E+01	8.32E-03	1.33E+00	4.1E-05	1.08E-03	1.12E+00	0	-1.25E+01

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.

This EPD was created using a software tool.

References

Standards:

EN 15804

EN 15804:2012+A2:2019

Sustainability of construction works -Environmental Product Declarations - Core rules for the product category of construction products

EN ISO 14025

EN ISO 14025:2011-10

Environmental labels and declarations - Type III environmental declarations - Principles and procedures

EN ISO 14040

EN ISO 14040:2009-11

Environmental management - Life cycle assessment - Principles and framework

EN ISO 14044

EN ISO 14044:2006-10

Environmental management - Life cycle assessment - Requirements and guidelines

Further references

CEN/TR 15941

Sustainability of construction works - Environmental product declarations - Methodology for selection and use of generic data; CEN/TR 15941:2010

CPR

Construction Production Regulation (EU) No 305/2011 of the European Parliament and of the Council of 9 March 2011 laying down harmonized conditions for the marketing of construction products and repealing Council Directive 89/106/EEC

IBU 2024

Institut Bauen und Umwelt e.V.: General Instructions for the EPD programme of Institut Bauen und Umwelt e.V., Version

2.0, Berlin: Institut Bauen und Umwelt e.V., 2024, www.ibu-epd.com

PCR Part A

PCR - Part A: Calculation rules for the Life Cycle Assessment and Requirements on the Background Report, version 1.3, Institut Bauen und Umwelt e.V., <https://ibu-epd.com/>, 31/08/2022

PCR Part B

PCR – Part B: Requirements of the EPD for Metal pipes for domestic installations, v3, Institut Bauen und Umwelt e.V., www.bau-umwelt.com, 12/09/2023

Managed LCA Content (GaBi Databases)

Life cycle assessment database, by Sphera Solutions GmbH, Leinfelden-Echterdingen, 2023.2 <https://sphera.com/life-cycle-assessment-lca-database/>

Sphera LCA for Expert (GaBi) ts

Life cycle assessment software (version 10), by Sphera Solutions GmbH, Leinfelden-Echterdingen, 2022 <https://sphera.com/life-cycle-assessment-lca-software/>

SPHERA DC

Template Sphera – Copper pipe LCA tool - Data Collection

EUROSTAT

Sankey diagram data -

https://ec.europa.eu/eurostat/databrowser/view/ENV_WASSD__custom

Duty Vehicle Processes 2022

Documentation for Duty Vehicle Processes in GaBi 2022, February 23, 2022

UNI EN 13348:2016

Copper and copper alloys - Seamless, round copper tubes for medical gases or vacuum

UNI EN 12735-1:2020

Copper and copper alloys - Seamless, round tubes for air conditioning and refrigeration - Part 1: Tubes for piping systems

UNI EN 1057:2010

Copper and copper alloys - Seamless, round copper tubes for water and gas in sanitary and heating applications

Directive 2014/68/EU

Directive of the European Parliament and of the Council of 15 May 2014 on the harmonisation of the laws of the Member States relating to the making available on the market of

pressure equipment (recast) Text with EEA relevance

AD 2000-Merkblatt W 6/1:2016-05

Aluminium and aluminium alloys - Wrought materials



Publisher

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