ENVIRONMENTAL PRODUCT DECLARATION

IN ACCORDANCE WITH EN 15804+A2 & ISO 14025

PVC Ventilation Duct Length
Volution Ventilation

EPD HUB, HUB-6162
Published on 18.06.2026, last updated on 18.06.2026, valid until 17.06.2031

Life Cycle Assessment study has been performed in accordance with the requirements of EN 15804, EPD Hub PCR version 1.2 (24 Mar 2025) and JRC characterization factors EF 3.1.

Created with One Click LCA

volution
Healthy air, sustainably.

GENERAL INFORMATION

MANUFACTURER

Manufacturer	Volution Ventilation
Address	Fleming Way, CRAWLEY, West Sussex, United Kingdom RH10 9YX
Contact details	EPD@Volution-group.co.uk
Website	www.volutiongroupplc.com

EPD STANDARDS, SCOPE AND VERIFICATION

Program operator	EPD Hub, hub@epdhub.com
Reference standard	EN 15804:2012+A2:2019/AC:2021 and ISO 14025
PCR	EPD Hub Core PCR Version 1.2, 24 Mar 2025
Sector	Construction product
Category of EPD	Third party verified EPD
Parent EPD number	
Scope of the EPD	Cradle to gate with options, A5, and modules C1-C4, D
EPD author	Andrew Jackson
EPD verification	Independent verification of this EPD and data, according to ISO 14025: ☐ Internal verification ☑ External verification
EPD verifier	Yazan Badour as an authorized verifier for EPD Hub

This EPD is intended for business-to-business and/or business-to-consumer communication. The manufacturer has the sole ownership, liability, and responsibility for the EPD. EPDs within the same product category but from different programs may not be comparable. EPDs of construction products may not be comparable if they do not comply with EN 15804 and if they are not compared in a building context.

PRODUCT

Product name	PVC Ventilation Duct Length
Additional labels	
Product reference	See Annex 1
Place(s) of raw material origin	Netherlands
Place of production	Reading, United Kingdom
Place(s) of installation and use	United Kingdom, Europe, Australasia
Period for data	01/01/2025 to 31/12/2025
Averaging in EPD	No grouping
Variation in GWP-fossil for A1-A3 (%)	
GTIN (Global Trade Item Number)	-
NOBB (Norwegian Building Product Database)	-
A1-A3 Specific data (%)	58.2

ENVIRONMENTAL DATA SUMMARY

Declared unit	1m of pipe 100mm diameter grey
Declared unit mass	0.704 kg
Mass of packaging	1.2 kg
GWP-fossil, A1-A3 ($kgCO_2e$)	0.58
GWP-total, A1-A3 ($kgCO_2e$)	0.5
Total energy use, A1-A3 (kWh)	-1.13
Net freshwater use, A1-A3 (m^3)	0

PRODUCT AND MANUFACTURER

ABOUT THE MANUFACTURER

PRODUCT DESCRIPTION

Rigid PVC ventilation ducting delivers a durable, efficient, and cost-effective solution for modern airflow systems. Available in a wide range of lengths to suit any installation, this robust ducting ensures smooth air movement with minimal resistance, improving overall system performance. Its lightweight yet sturdy construction makes it easy to handle on-site, while the corrosion-resistant PVC material guarantees long-term reliability in both residential and commercial environments. Making ventilation sustainable is our main aim through continuously improving our processes to reduce waste throughout our products lifecycle and significantly increasing the use of recycled plastic from the circular economy in the manufacturing of our products.

Further information can be found at:
www.volutiongroupplc.com

PRODUCT RAW MATERIAL MAIN COMPOSITION

Raw material category	Amount, mass %	Material origin
Metals	0	
Minerals	0	
Fossil materials	100	Netherlands
Bio-based materials	0	

BIOGENIC CARBON CONTENT

Product's biogenic carbon content at the factory gate

Biogenic carbon content in product, kg C	0
Biogenic carbon content in packaging, kg C	0.06

FUNCTIONAL UNIT AND SERVICE LIFE

Declared unit	1m of pipe 100mm diameter grey
Mass per declared unit	0.704 kg
Functional unit	
Reference service life	50 years

SUBSTANCES, REACH - VERY HIGH CONCERN

The product does not contain any REACH SVHC substances in amounts greater than 0,1 % (1000 ppm).

PRODUCT LIFE-CYCLE

SYSTEM BOUNDARY

This EPD covers the life-cycle modules listed in the following table.

Product stage			Assembly stage		Use stage							End of life stage				Beyond the system boundaries		
A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D		
x	x	x	ND	x	ND	ND	ND	ND	ND	ND	ND	x	x	x	x	x		
Raw materials	Transport	Manufacturing	Transport	Assembly	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	Deconstruction/ demolition	Transport	Waste processing	Disposal	Reuse	Recovery	Recycling

Not declared = ND.

MANUFACTURING AND PACKAGING (A1-A3)

The environmental impacts considered for the product stage cover the manufacturing of raw materials used in the production as well as packaging materials and other ancillary materials. Also, fuels used by machines, and handling of waste formed in the production processes at the manufacturing facilities are included in this stage. The study also considers the material losses occurring during the manufacturing processes as well as losses during electricity transmission.

A market-based approach is used in modelling the electricity mix utilized in the factory.
The reference product consists of one length of PVC duct. The materials are transported to our production facility, where the manufacturing processes of plastic intrusion. The manufacturing process requires electricity and fuels for the equipment as well as heating. The manufacturing energy is considered based on the electricity mix of the manufacturing site, energy source and country of electricity generation. Each part manufacturing process is considered separately and process waste disposal is accounted based on allocation of factory level waste. The finished product is packaged in cardboard before being sent to the installation site.
The manufacturing waste has been excluded as the quantity is less than 1% of the total material flow.

TRANSPORT AND INSTALLATION (A4-A5)

Transportation impacts occurred from final products delivery to construction site (A4) cover fuel direct exhaust emissions, environmental impacts of fuel production, as well as related infrastructure emissions.

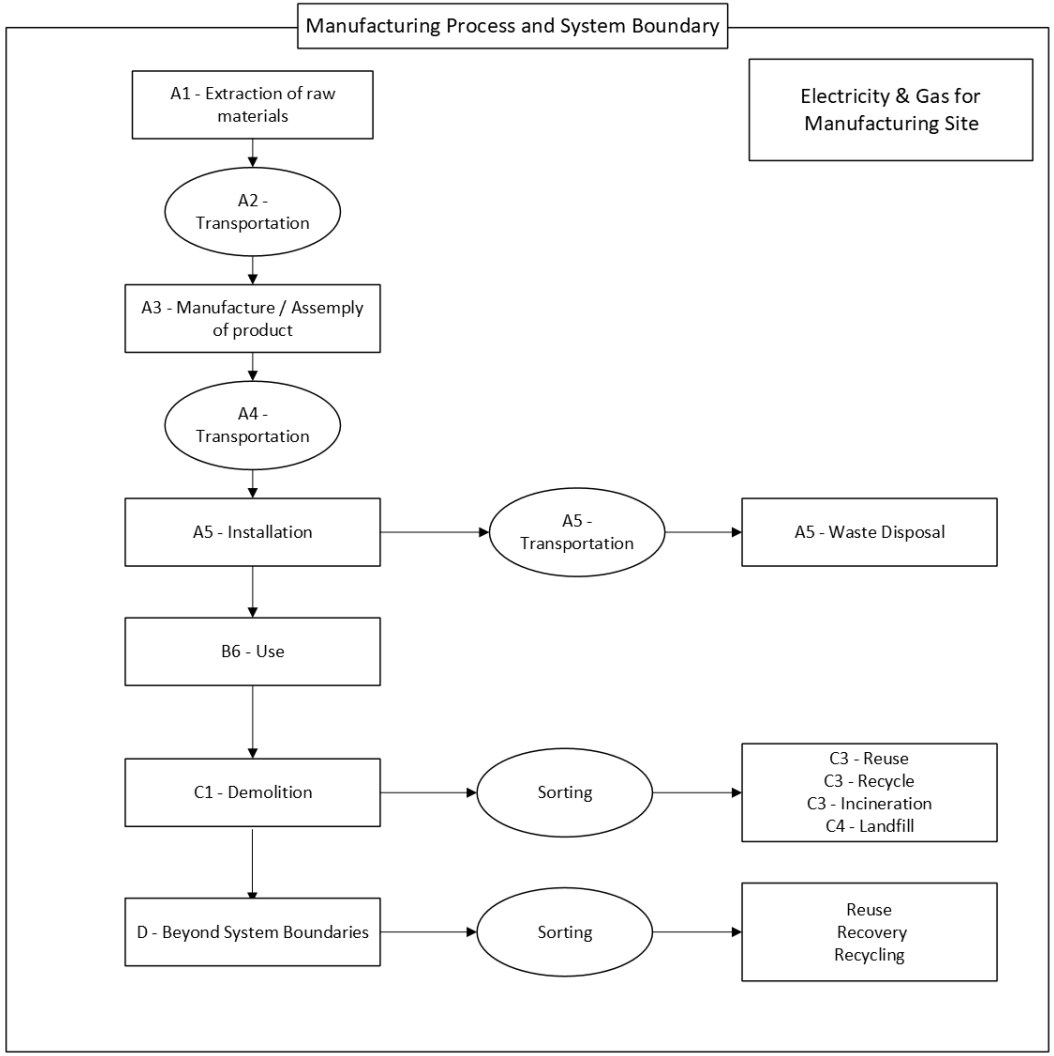
A sales volume-based weighted average is considered for defining the distribution to the customer. Average distance of transportation from production plant to building site was calculated using our most common country of sale and using the capital city of this country as the destination. Where applicable, we have factored in a shipping leg for transportation into mainland Europe from the UK. Vehicle capacity utilisation volume factor is assumed to be 100% which means full load. In reality, it may vary but as role of transportation emissions in total results is small, the variety in load is assumed to be negligible. To be conservative, empty returns are considered as modelled in the ecoinvent database. Transportation does not cause losses as product are packaged properly. Also, volume capacity utilisation factor is assumed to be 100% for the nested packaged products.
Transportation impacts that occur from delivery of the product cover direct

exhaust emissions of fuel, environmental impacts of fuel production, as well as related infrastructure emissions. Environmental impacts from installation into the building include waste packaging materials (A5) and release of biogenic carbon dioxide from waste processing of cardboard and wood pallets. Electricity consumption, steel bolts and copper pipes are considered as part of the installation process. Quantities are assumed as it varies for different products.

PRODUCT END OF LIFE (C1-C4, D)

Consumption of energy and natural resources in demolition process is assumed to be negligible. It is assumed that the waste is collected separately and transported to the waste treatment centre. Transportation distance to treatment is assumed as 250 km to recycling sites, 150 km to incineration and 50 km to landfill, and the transportation method is assumed to be lorry (C2). According to EN 50693:2019, the sequence of treatment operations occurring to the product shall include de-pollution, fractions separation and preparation (dismantling, crushing, shredding, sorting), recycling, other material recovery, energy recovery and disposal. In this study, the default values from table G.4 of EN 50693 is used for treating materials in different waste treatment methods.
Benefits and loads beyond the system boundary were taken into consideration in this study. Specifically, the loads from recycling and incineration of the raw materials in the end of life, and the packaging in A5. Any recycled contents in the materials were discounted in Module D as per the EN 15804+A2.

LIFE CYCLE FLOW DIAGRAM



LIFE-CYCLE ASSESSMENT

CUT-OFF CRITERIA

The study does not exclude any modules or processes which are stated mandatory in the reference standard and the applied PCR. The study does not exclude any hazardous materials or substances. The study includes all major raw material and energy consumption. All inputs and outputs of the unit processes, for which data is available for, are included in the calculation. There is no neglected unit process more than 1% of total mass or energy flows. The module specific total neglected input and output flows also do not exceed 5% of energy usage or mass.

The production of capital equipment, construction activities, and infrastructure, maintenance and operation of capital equipment, personnel-related activities, energy and water use related to company management and sales activities are excluded.

VALIDATION OF DATA

Data collection for production, transport, and packaging was conducted using time and site-specific information, as defined in the general information section on page 1 and 2. Upstream process calculations rely on generic data as defined in the Bibliography section. Manufacturer-provided specific and generic data were used for the product's manufacturing stage. The analysis was performed in One Click LCA EPD Generator, with the 'Cut-Off, EN 15804+A2' allocation method, and characterization factors according to EN 15804:2012+A2:2019/AC:2021 and JRC EF 3.1.
A technical inconsistency between PENRT (total use of non-renewable primary energy) and ADP-fossil (abiotic depletion potential for fossil resources) may be observed in the end-of-life modules (C1–C4). Where present, contribution analysis typically shows that the discrepancy originates from the specific characterization factors used in the background environmental profiles of the end-of-life processes and energy carriers included in the product system. Such inconsistencies are inherent to the third-party verified background databases used to model the product and cannot be adjusted by the practitioner.

ALLOCATION, ESTIMATES AND ASSUMPTIONS

Allocation is required if some material, energy, and waste data cannot be measured separately for the product under investigation. All allocations are done as per the reference standards and the applied PCR. In this study, allocation has been done in the following ways:

Data type	Allocation
Raw materials	No allocation
Packaging material	No allocation
Ancillary materials	No allocation
Manufacturing energy and waste	No allocation

PRODUCT & MANUFACTURING SITES GROUPING

Type of grouping	No grouping
Grouping method	Not applicable
Variation in GWP-fossil for A1-A3, %	

This EPD is product and factory specific.

LCA SOFTWARE AND BIBLIOGRAPHY

This EPD has been created using One Click LCA EPD Generator for EPD Hub V3 and EPD Process Certification v3.2.5. The LCA and EPD have been prepared according to the reference standards and ISO 14040/14044. The EPD Generator uses Ecoinvent v3.10.1/3.11/3.12 and One Click LCA databases as sources of environmental data. Allocation used in Ecoinvent 3.10.1/3.11/3.12 environmental data sources follow the methodology ‘allocation, Cut-off, EN 15804+A2‘.

ENVIRONMENTAL IMPACT DATA

The estimated impact results are only relative statements which do not indicate the end points of the impact categories, exceeding threshold values, safety margins or risks.

CORE ENVIRONMENTAL IMPACT INDICATORS – EN 15804+A2, EF 3.1

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
GWP – total[1)]	kg CO_2e	1.91E-01	3.48E-02	2.75E-01	5.01E-01	ND	9.22E-02	ND	ND	ND	ND	ND	ND	ND	0.00E+00	1.21E-02	6.56E-01	2.15E-02	-5.46E-01
GWP – fossil	kg CO_2e	1.89E-01	3.48E-02	3.59E-01	5.83E-01	ND	2.17E-03	ND	ND	ND	ND	ND	ND	ND	0.00E+00	1.21E-02	6.57E-01	2.16E-02	-4.75E-01
GWP – biogenic	kg CO_2e	1.80E-03	7.76E-06	-8.72E-02	-8.54E-02	ND	9.00E-02	ND	ND	ND	ND	ND	ND	ND	0.00E+00	2.74E-06	-1.01E-03	-1.13E-05	-7.10E-02
GWP – LULUC	kg CO_2e	2.08E-04	1.56E-05	2.54E-03	2.76E-03	ND	1.19E-06	ND	ND	ND	ND	ND	ND	ND	0.00E+00	5.42E-06	9.92E-05	1.31E-06	4.09E-05
Ozone depletion pot.	kg $CFC\text{-}_{11}$e	2.92E-09	5.13E-10	1.17E-08	1.51E-08	ND	2.19E-11	ND	ND	ND	ND	ND	ND	ND	0.00E+00	1.79E-10	2.98E-09	5.20E-11	-1.95E-07
Acidification potential	mol H^+e	8.02E-04	1.19E-04	1.03E-03	1.96E-03	ND	8.77E-06	ND	ND	ND	ND	ND	ND	ND	0.00E+00	4.13E-05	5.13E-04	1.43E-05	-1.75E-03
EP-freshwater[2)]	kg Pe	6.34E-05	2.72E-06	1.05E-04	1.72E-04	ND	4.84E-07	ND	ND	ND	ND	ND	ND	ND	0.00E+00	9.43E-07	3.23E-05	2.12E-07	-2.15E-04
EP-marine	kg Ne	2.56E-04	3.90E-05	3.34E-04	6.29E-04	ND	1.41E-05	ND	ND	ND	ND	ND	ND	ND	0.00E+00	1.36E-05	1.74E-04	4.77E-05	-3.49E-04
EP-terrestrial	mol Ne	2.48E-03	4.24E-04	2.88E-03	5.79E-03	ND	2.77E-05	ND	ND	ND	ND	ND	ND	ND	0.00E+00	1.48E-04	1.43E-03	5.84E-05	-3.35E-03
POCP ("smog")[3)]	kg NMVOCe	8.24E-04	1.75E-04	8.50E-04	1.85E-03	ND	1.06E-05	ND	ND	ND	ND	ND	ND	ND	0.00E+00	6.09E-05	4.57E-04	2.54E-05	-2.07E-03
ADP-minerals & metals[4)]	kg Sbe	1.17E-06	9.71E-08	6.88E-07	1.95E-06	ND	1.41E-08	ND	ND	ND	ND	ND	ND	ND	0.00E+00	3.38E-08	8.72E-07	4.54E-09	-8.23E-06
ADP-fossil resources	MJ	2.58E+00	5.05E-01	6.69E+00	9.78E+00	ND	1.98E-02	ND	ND	ND	ND	ND	ND	ND	0.00E+00	1.76E-01	1.12E+00	4.47E-02	-1.24E+01
Water use[5)]	m^3e depr.	4.84E-02	2.50E-03	7.50E-02	1.26E-01	ND	5.43E-04	ND	ND	ND	ND	ND	ND	ND	0.00E+00	8.68E-04	7.72E-01	2.19E-04	-1.06E-01

1) GWP = Global Warming Potential; 2) EP = Eutrophication potential. Required characterisation method and data are in kg P-eq. Multiply by 3,07 to get PO4e; 3) POCP = Photochemical ozone formation; 4) ADP = Abiotic depletion potential; 5) EN 15804+A2 disclaimer for Abiotic depletion and Water use and optional indicators except Particulate matter and Ionizing radiation, human health. The results of these environmental impact indicators shall be used with care as the uncertainties on these results are high or as there is limited experience with the indicator.

ADDITIONAL (OPTIONAL) ENVIRONMENTAL IMPACT INDICATORS – EN 15804+A2, EF 3.1

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Particulate matter	Incidence	1.02E-08	3.48E-09	5.82E-09	1.95E-08	ND	1.18E-10	ND	ND	ND	ND	ND	ND	ND	0.00E+00	1.21E-09	5.05E-09	3.24E-10	-6.17E-09
Ionizing radiation[6)]	kBq U235e	3.86E-02	4.39E-04	1.41E-01	1.80E-01	ND	1.30E-04	ND	ND	ND	ND	ND	ND	ND	0.00E+00	1.53E-04	4.91E-03	4.45E-05	-7.78E-02
Ecotoxicity (freshwater)	CTUe	3.24E+00	7.19E-02	5.70E+00	9.01E+00	ND	7.06E-02	ND	ND	ND	ND	ND	ND	ND	0.00E+00	2.49E-02	3.25E+01	6.66E-02	-2.56E+00
Human toxicity, cancer	CTUh	5.25E-11	5.74E-12	4.63E-11	1.04E-10	ND	1.57E-12	ND	ND	ND	ND	ND	ND	ND	0.00E+00	2.00E-12	2.05E-10	1.05E-12	-8.35E-10
Human tox. non-cancer	CTUh	2.02E-09	3.27E-10	1.53E-09	3.88E-09	ND	8.36E-11	ND	ND	ND	ND	ND	ND	ND	0.00E+00	1.14E-10	3.24E-09	2.08E-10	-5.25E-09
SQP[7)]	-	1.49E+00	5.08E-01	2.89E+00	4.89E+00	ND	1.46E-02	ND	ND	ND	ND	ND	ND	ND	0.00E+00	1.77E-01	7.09E-01	1.04E-01	-7.91E+00

6) EN 15804+A2 disclaimer for Ionizing radiation, human health. 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; 7) SQP = Land use related impacts/soil quality.

USE OF NATURAL RESOURCES

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Renew. PER as energy[8)]	MJ	3.83E-01	6.92E-03	1.03E-01	4.93E-01	ND	-8.66E-01	ND	ND	ND	ND	ND	ND	ND	0.00E+00	2.41E-03	1.10E-01	7.00E-04	-1.92E+00
Renew. PER as material	MJ	0.00E+00	0.00E+00	7.69E-01	7.69E-01	ND	-7.69E-01	ND	ND	ND	ND	ND	ND	ND	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-01
Total use of renew. PER	MJ	3.83E-01	6.92E-03	8.72E-01	1.26E+00	ND	-1.63E+00	ND	ND	ND	ND	ND	ND	ND	0.00E+00	2.41E-03	1.10E-01	7.00E-04	-1.22E+00
Non-re. PER as energy	MJ	-1.18E+01	5.05E-01	6.71E+00	-4.56E+00	ND	1.98E-02	ND	ND	ND	ND	ND	ND	ND	0.00E+00	1.76E-01	-1.53E+01	-7.00E+00	-1.75E+01
Non-re. PER as material	MJ	0.00E+00	0.00E+00	2.51E-03	2.51E-03	ND	-2.51E-03	ND	ND	ND	ND	ND	ND	ND	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.16E+00
Total use of non-re. PER	MJ	-1.18E+01	5.05E-01	6.71E+00	-4.56E+00	ND	1.73E-02	ND	ND	ND	ND	ND	ND	ND	0.00E+00	1.76E-01	-1.53E+01	-7.00E+00	-1.23E+01
Secondary materials	kg	8.27E-01	2.15E-04	7.37E-02	9.00E-01	ND	3.27E-05	ND	ND	ND	ND	ND	ND	ND	0.00E+00	7.48E-05	1.15E-03	1.62E-05	2.89E-01
Renew. secondary fuels	MJ	1.75E-05	2.73E-06	5.58E-03	5.60E-03	ND	1.85E-07	ND	ND	ND	ND	ND	ND	ND	0.00E+00	9.50E-07	1.03E-04	3.03E-07	-2.40E-05
Non-ren. secondary fuels	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	ND	0.00E+00	ND	ND	ND	ND	ND	ND	ND	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of net fresh water	m^3	1.08E-03	7.46E-05	1.76E-03	2.91E-03	ND	-1.11E-05	ND	ND	ND	ND	ND	ND	ND	0.00E+00	2.60E-05	1.79E-02	-6.66E-04	-3.19E-03

8) PER = Primary energy resources.

END OF LIFE – WASTE

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Hazardous waste	kg	6.54E-03	8.92E-04	1.90E-02	2.65E-02	ND	3.35E-04	ND	ND	ND	ND	ND	ND	ND	0.00E+00	2.98E-04	1.82E-01	7.86E-05	-2.49E-02
Non-hazardous waste	kg	3.60E-01	1.66E-02	4.66E-01	8.43E-01	ND	3.79E-02	ND	ND	ND	ND	ND	ND	ND	0.00E+00	5.51E-03	7.80E-01	8.94E-01	-1.63E+01
Radioactive waste	kg	9.87E-06	1.07E-07	3.06E-05	4.06E-05	ND	3.32E-08	ND	ND	ND	ND	ND	ND	ND	0.00E+00	3.75E-08	1.26E-06	1.09E-08	-2.03E-05

END OF LIFE – OUTPUT FLOWS

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Components for re-use	kg	0.00E+00	0.00E+00	1.40E-02	1.40E-02	ND	0.00E+00	ND	ND	ND	ND	ND	ND	ND	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Materials for recycling	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	ND	5.00E-02	ND	ND	ND	ND	ND	ND	ND	0.00E+00	0.00E+00	2.40E-01	0.00E+00	0.00E+00
Materials for energy rec	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	ND	0.00E+00	ND	ND	ND	ND	ND	ND	ND	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Exported energy	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	ND	2.60E-02	ND	ND	ND	ND	ND	ND	ND	0.00E+00	0.00E+00	2.36E+00	0.00E+00	0.00E+00
Exported energy – Electricity	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	ND	1.10E-02	ND	ND	ND	ND	ND	ND	ND	0.00E+00	0.00E+00	9.90E-01	0.00E+00	0.00E+00
Exported energy – Heat	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	ND	1.50E-02	ND	ND	ND	ND	ND	ND	ND	0.00E+00	0.00E+00	1.37E+00	0.00E+00	0.00E+00

ENVIRONMENTAL IMPACTS – EN 15804+A1, CML

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Global Warming Pot.	kg CO_2e	0.00E+00	3.46E-02	3.62E-01	3.96E-01	ND	8.22E-03	ND	ND	ND	ND	ND	ND	ND	0.00E+00	1.20E-02	6.57E-01	2.06E-02	-4.58E-01
Ozone depletion Pot.	kg $CFC_{-11}e$	0.00E+00	0.00E+00	0.00E+00	0.00E+00	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Acidification	kg SO_2e	0.00E+00	0.00E+00	0.00E+00	0.00E+00	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Eutrophication	kg PO_4^3e	0.00E+00	0.00E+00	0.00E+00	0.00E+00	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
POCP (“smog”)	kg C_2H_4e	0.00E+00	0.00E+00	0.00E+00	0.00E+00	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ADP-elements	kg Sbe	0.00E+00	0.00E+00	0.00E+00	0.00E+00	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
ADP-fossil	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

ADDITIONAL INDICATOR – GWP-GHG

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
GWP-GHG[9)]	kg CO_2e	1.90E-01	3.48E-02	3.62E-01	5.86E-01	ND	2.18E-03	ND	ND	ND	ND	ND	ND	ND	0.00E+00	1.21E-02	6.57E-01	2.16E-02	-4.75E-01

9) This indicator includes all greenhouse gases excluding biogenic carbon dioxide uptake and emissions and biogenic carbon stored in the product. In addition, the characterisation factors for the flows – CH4 fossil, CH4 biogenic and Dinitrogen monoxide – were updated. This indicator is identical to the GWP-total of EN 15804:2012+A2:2019 except that the characterisation factor for biogenic CO2 is set to zero

SCENARIO DOCUMENTATION

DATA SOURCES

Manufacturing energy scenario documentation

1. Heat production, natural gas, at industrial furnace >100kW, Albania, Ecoinvent, 0.0773 kgCO2e/MJ
2. Electricity, medium voltage, residual mix, United Kingdom, Ecoinvent, 0.47 kgCO2e/kWh

Installation at the building site (A5) - Scenario documentation

Scenario parameter	Value
Energy: type and consumption (MJ or kWh)	-
Water use (m^3)	-
Ancillary materials: type and mass (kg)	-
Waste materials: type and mass (kg)	-
Waste materials: output routes	-
Direct emissions (kg)	-

End of life (C1-C4) - Scenario documentation

Scenario information	Value
Collection process: collected separately (kg)	-
Collection process: Mixed waste (kg)	-
Recovery: re-use (kg)	0
Recovery: recycling (kg)	0.24
Recovery: energy recovery (kg)	0
Disposal (kg)	0
Scenario assumptions e.g. transportation (mode, km) & other	Landfill, 50km. Incineration, 100km. Recycling, 250km.

THIRD-PARTY VERIFICATION STATEMENT

EPD Hub declares that this EPD is verified in accordance with ISO 14025 by an independent, third-party verifier. The project report on the Life Cycle Assessment and the report(s) on features of environmental relevance are filed at EPD Hub. EPD Hub PCR and ECO Platform verification checklist are used.

EPD Hub is not able to identify any unjustified deviations from the PCR and EN 15804+A2 in the Environmental Product Declaration and its project report.

EPD Hub maintains its independence as a third-party body; it was not involved in the execution of the LCA or in the development of the declaration and has no conflicts of interest regarding this verification.

The company-specific data and upstream and downstream data have been examined as regards plausibility and consistency. The publisher is responsible for ensuring the factual integrity and legal compliance of this declaration.

The software used in creation of this LCA and EPD is verified by EPD Hub to conform to the procedural and methodological requirements outlined in ISO 14025:2010, ISO 14040/14044, EN 15804+A2, and EPD Hub Core Product Category Rules and General Program Instructions.

Verified tools

Tool verifier: Magaly Gonzalez Vazquez
Tool verification validity: 27 March 2025 - 26 March 2028

Yazan Badour as an authorized verifier for EPD Hub Limited 18.06.2026

ANNEX 1

PRODUCT SCALING

The table below shows the products in the 4 most common sizes sold across all diameters and rectangular size of ducting.

You can scale accordingly for any size duct within the Duct Size range by using the 1m Length values to multiply by your length accordingly.

	0.5m Lengths		1m lengths		1.5m Lengths		2m Lengths	
Duct Size (mm)	Weight (Kg)	A1-A3 GWP FOSSIL (kg/CO2e)	Weight (Kg)	A1-A3 GWP FOSSIL (kg/CO2e)	Weight (Kg)	A1-A3 GWP FOSSIL (kg/CO2e)	Weight (Kg)	A1-A3 GWP FOSSIL (kg/CO2e)
100	0.352	0.290	0.704	0.580	1.056	0.870	1.408	1.160
125	0.450	0.371	0.900	0.741	1.350	1.112	1.800	1.483
150	0.675	0.556	1.350	1.112	2.025	1.668	2.700	2.224
110 x 54	0.417	0.343	0.833	0.686	1.250	1.029	1.666	1.373
150 x 70	0.585	0.482	1.170	0.964	1.755	1.446	2.340	1.928
204 x 60	0.710	0.585	1.420	1.170	2.130	1.755	2.840	2.340
220 x 90	0.850	0.700	1.700	1.401	2.550	2.101	3.400	2.801
225 x 25	0.550	0.453	1.100	0.906	1.650	1.359	2.200	1.813
300 x 25	0.830	0.684	1.660	1.368	2.490	2.051	3.320	2.735