ENVIRONMENTAL PRODUCT DECLARATION

IN ACCORDANCE WITH EN 15804+A2 & ISO 14025

Rectangular Metal Attenuator
Allaway Acoustics Ltd

EPD HUB, HUB-6871
Published on 02.07.2026, last updated on 02.07.2026, valid until 01.07.2031

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

GENERAL INFORMATION

MANUFACTURER

Manufacturer	Allaway Acoustics Ltd
Address	Fison Way Industrial Estate, Thetford, UK, IP24 1HZ
Contact details	enquiries@allawayacoustics.co.uk
Website	www.allawayacoustics.co.uk

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 EN 17213 Windows and doors
Sector	Construction product
Category of EPD	Third party verified EPD
Parent EPD number	-
Scope of the EPD	Cradle to gate with options, A4-A5, and modules C1-C4, D
EPD author	Chris Williams
EPD verification	Independent verification of this EPD and data, according to ISO 14025: ☐ Internal verification ☑ External verification
EPD verifier	D.V 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	Rectangular Metal Attenuator
Additional labels	-
Product reference	SL/SP
Place(s) of raw material origin	UK, Asia
Place of production	United Kingdom, Thetford
Place(s) of installation and use	United Kingdom
Period for data	01:2025 to 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 (%)	52.1

ENVIRONMENTAL DATA SUMMARY

Declared unit	1kg
Declared unit mass	1 kg
Mass of packaging	0.003 kg
GWP-fossil, A1-A3 ($kgCO_2e$)	0.45
GWP-total, A1-A3 ($kgCO_2e$)	2.57
Secondary material, inputs (%)	0.09
Total energy use, A1-A3 (kWh)	5.84
Net freshwater use, A1-A3 (m^3)	0

PRODUCT AND MANUFACTURER

ABOUT THE MANUFACTURER

Allaway acoustics is a United Kingdom based manufacturer of noise and vibration control equipments.

PRODUCT DESCRIPTION

Attenuators are made to order at our manufacturing facility, with no limitations on size and material. Materials available include pre-galvanised steel. All of which can be produced in the most efficient and cost-effective way, using our bespoke software packages and modern manufacturing methods.
We are one of the largest manufacturers of attenuators in the UK, currently supplying about 90,000 units annually. Attenuators of all types are made to order at our manufacturing facility, with no limitations on size and material.

Further information can be found at:
www.allawayacoustics.co.uk

PRODUCT RAW MATERIAL MAIN COMPOSITION

Raw material category	Amount, mass %	Material origin
Metals	83	Asia
Minerals	17	UK
Fossil materials	-	-
Bio-based materials	-	-

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	0.02

FUNCTIONAL UNIT AND SERVICE LIFE

Declared unit	1kg
Mass per declared unit	1 kg
Functional unit	-
Reference service life	25 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	x	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 attenuator that is manufactured using metals and stone wool. The raw materials are delivered to Allaway production facility where they are cut, roll-formed and assembled into the final product. The manufacturing process uses electricity. Natural gas is used for space heating. The manufacturing energy is considered based on the renewable electricity mix of the provider. Certain ancillary materials are also included. Products are wrapped in plastic film before being packed on pallets and delivered to site.
The use of green energy in manufacturing is demonstrated through contractual instruments (GOs, RECs), and its use is ensured throughout the validity period of this EPD.

TRANSPORT AND INSTALLATION (A4-A5)

Transport impacts that occurred from the final product delivery to the construction site (A4) cover fuel direct exhaust emissions, enviornmental impacts of fuel production, as well as infrastructure emissions. Transportation distance is defined according to the PCR. 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 is assumed as 109 km (by lorry) for local transport. Vehicle capacity utilization volume factor is assumed to be 50% which means empty returns. 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. Transportation does not cause losses as product are packaged properly.

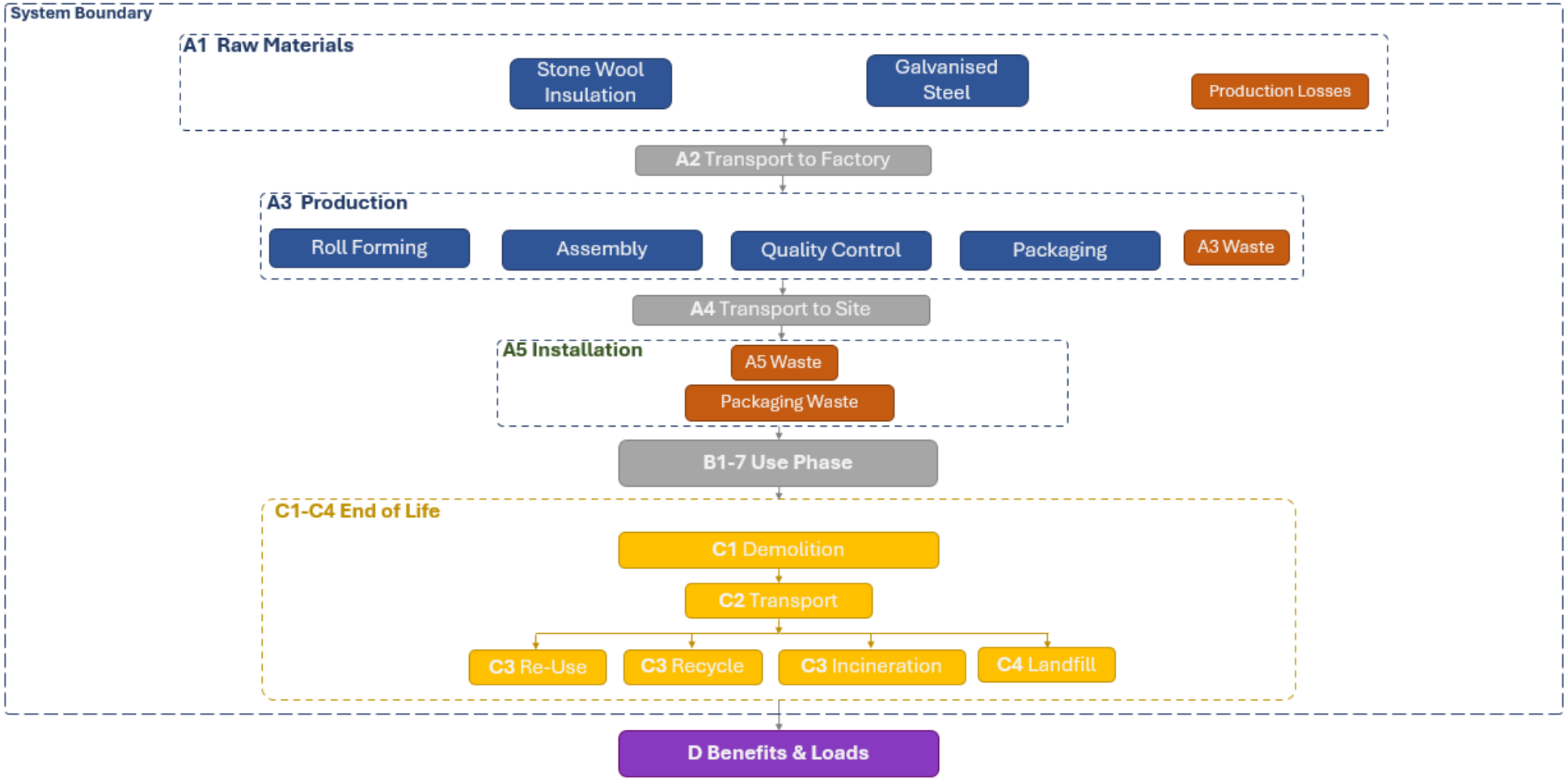
Module A5 – Installation Stage (Packaging End-of-Waste Assumptions)

- **System Boundary:** Within Module A5, only the end-of-waste state for the product's packaging is included.
- **Waste Transportation:** The average transport distance to the waste treatment or recycling facility is assumed to be 50 km. This is modeled using a freight lorry (>32 metric tons, diesel, EURO 5 standard).
- **Wooden Pallet Packaging:** The product is packaged using wooden pallets. In accordance with the EUROSTAT statistics for waste wood packaging, the end-of-life scenario assumes 32% recycling, 30% incineration with energy/heat recovery, and 38% landfilling.
- **Plastic Packaging:** For the plastic packaging components, the end-of-waste scenario is based on EUROSTAT statistics, modeled as follows: 40% recycling, 37% incineration with energy recovery, and 23% landfilling.

PRODUCT END OF LIFE (C1-C4, D)

At the end of its life, the product is assumed to be part of a building facility that is demolished using machinery, consuming energy in the form of diesel (C1).
It is assumed that 100% of the product components is transported to a site where this waste is processed. The stone wool is assumed 100% landfilled at a distance of 50 km (C2), while the steel by about 85% can be recycled (C3) this way at a distance of 250 km (C2), (World Steel Association, 2020). The remaining 15% of steel is assumed to be sent to the landfill (C4) for disposal at a distance of 50 km (C2). The recycled steel received from waste processes can be used as a replacement for virgin steel (D). The process losses of the waste treatment plant are assumed to be negligible.

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.

I have excluded lubricating oil & grease as Excel sheet tab A3 see those sources demonstrated <1% of the total A1 input

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.

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	Physical Properties
Manufacturing energy and waste	Physical Properties

PRODUCT & MANUFACTURING SITES GROUPING

Type of grouping	No grouping
Grouping method	-
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	2.39E+00	2.07E-01	-2.11E-02	2.57E+00	1.27E-02	6.70E-02	ND	ND	ND	ND	ND	ND	ND	7.05E-03	2.07E-02	1.57E-02	1.82E-03	4.22E+00
GWP – fossil	kg CO_2e	1.98E-01	2.05E-01	4.21E-02	4.45E-01	1.27E-02	3.77E-03	ND	ND	ND	ND	ND	ND	ND	7.04E-03	2.07E-02	1.60E-02	1.81E-03	-1.77E+00
GWP – biogenic	kg CO_2e	1.11E-03	-7.09E-06	-6.33E-02	-6.22E-02	2.93E-06	6.32E-02	ND	ND	ND	ND	ND	ND	ND	1.14E-06	4.69E-06	-2.30E-04	6.74E-07	5.98E+00
GWP – LULUC	kg CO_2e	2.19E+00	2.13E-03	7.38E-05	2.19E+00	5.67E-06	2.69E-06	ND	ND	ND	ND	ND	ND	ND	7.12E-07	9.26E-06	1.97E-05	1.04E-06	-9.87E-04
Ozone depletion pot.	kg $CFC\text{-}_{11}$e	1.44E-08	4.21E-09	5.27E-10	1.91E-08	1.85E-10	2.81E-11	ND	ND	ND	ND	ND	ND	ND	1.08E-10	3.05E-10	2.12E-10	5.20E-11	-1.10E-08
Acidification potential	mol H^+e	8.44E-03	2.89E-03	1.28E-04	1.15E-02	4.43E-05	9.98E-06	ND	ND	ND	ND	ND	ND	ND	6.29E-05	7.06E-05	1.91E-04	1.26E-05	-8.29E-03
EP-freshwater[2)]	kg Pe	1.30E-03	1.07E-05	7.44E-06	1.32E-03	1.38E-06	4.97E-07	ND	ND	ND	ND	ND	ND	ND	2.26E-07	1.64E-06	1.06E-05	1.59E-07	-8.69E-04
EP-marine	kg Ne	3.17E-03	1.19E-03	3.88E-05	4.40E-03	1.46E-05	1.03E-05	ND	ND	ND	ND	ND	ND	ND	2.95E-05	2.32E-05	4.23E-05	4.92E-06	-1.60E-03
EP-terrestrial	mol Ne	1.93E-02	1.30E-02	3.99E-04	3.28E-02	1.58E-04	4.08E-05	ND	ND	ND	ND	ND	ND	ND	3.22E-04	2.53E-04	4.78E-04	5.36E-05	-1.69E-02
POCP ("smog")[3)]	kg NMVOCe	5.23E-03	3.53E-03	1.74E-04	8.94E-03	6.49E-05	1.33E-05	ND	ND	ND	ND	ND	ND	ND	9.67E-05	1.04E-04	1.42E-04	1.94E-05	-5.64E-03
ADP-minerals & metals[4)]	kg Sbe	2.79E-05	4.50E-07	2.81E-04	3.09E-04	3.64E-08	5.10E-09	ND	ND	ND	ND	ND	ND	ND	2.56E-09	5.78E-08	1.13E-06	2.73E-09	-1.23E-05
ADP-fossil resources	MJ	1.55E+01	2.61E+00	1.23E+00	1.93E+01	1.82E-01	2.51E-02	ND	ND	ND	ND	ND	ND	ND	9.14E-02	3.00E-01	2.16E-01	4.44E-02	-2.02E+01
Water use[5)]	m^3e depr.	1.79E-01	1.07E-02	1.97E-02	2.09E-01	1.06E-03	9.15E-04	ND	ND	ND	ND	ND	ND	ND	2.29E-04	1.49E-03	4.20E-03	1.95E-03	-3.84E-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	1.06E-08	8.95E-09	2.01E-09	2.15E-08	1.25E-09	1.94E-10	ND	ND	ND	ND	ND	ND	ND	1.80E-09	2.07E-09	2.61E-09	2.93E-10	-1.09E-07
Ionizing radiation[6)]	kBq U235e	1.40E-02	1.55E-03	7.04E-02	8.60E-02	1.52E-04	6.41E-05	ND	ND	ND	ND	ND	ND	ND	3.82E-05	2.61E-04	1.85E-03	2.60E-05	-1.36E-01
Ecotoxicity (freshwater)	CTUe	4.88E+00	2.35E+00	5.71E-01	7.80E+00	3.77E-02	4.04E-02	ND	ND	ND	ND	ND	ND	ND	9.27E-03	4.33E-02	1.06E+00	1.55E-02	-1.76E+01
Human toxicity, cancer	CTUh	2.55E-10	4.61E-11	7.09E-11	3.72E-10	2.00E-12	1.05E-12	ND	ND	ND	ND	ND	ND	ND	6.76E-13	3.41E-12	1.41E-11	3.22E-13	-2.92E-10
Human tox. non-cancer	CTUh	1.38E-09	1.23E-09	2.75E-10	2.89E-09	1.13E-10	4.86E-11	ND	ND	ND	ND	ND	ND	ND	1.20E-11	1.94E-10	9.69E-10	7.57E-12	-1.34E-08
SQP[7)]	-	1.03E+00	8.09E-01	5.56E+00	7.40E+00	1.81E-01	2.37E-02	ND	ND	ND	ND	ND	ND	ND	6.30E-03	3.02E-01	4.13E-01	8.74E-02	-6.30E+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	4.92E-01	3.25E-02	4.90E-01	1.01E+00	2.53E-03	-7.35E-01	ND	ND	ND	ND	ND	ND	ND	5.71E-04	4.12E-03	3.95E-02	4.14E-04	1.08E+01
Renew. PER as material	MJ	0.00E+00	0.00E+00	6.29E-01	6.29E-01	0.00E+00	-6.29E-01	ND	ND	ND	ND	ND	ND	ND	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-5.25E+01
Total use of renew. PER	MJ	4.92E-01	3.25E-02	1.12E+00	1.64E+00	2.53E-03	-1.36E+00	ND	ND	ND	ND	ND	ND	ND	5.71E-04	4.12E-03	3.95E-02	4.14E-04	-4.17E+01
Non-re. PER as energy	MJ	1.62E+01	2.63E+00	1.11E+00	2.00E+01	1.82E-01	-4.37E-02	ND	ND	ND	ND	ND	ND	ND	9.14E-02	3.00E-01	2.16E-01	4.44E-02	-2.02E+01
Non-re. PER as material	MJ	0.00E+00	0.00E+00	1.13E-01	1.13E-01	0.00E+00	-1.13E-01	ND	ND	ND	ND	ND	ND	ND	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-3.43E+00
Total use of non-re. PER	MJ	1.62E+01	2.63E+00	1.23E+00	2.01E+01	1.82E-01	-1.56E-01	ND	ND	ND	ND	ND	ND	ND	9.14E-02	3.00E-01	2.16E-01	4.44E-02	-2.36E+01
Secondary materials	kg	8.95E-04	1.42E-03	2.44E-03	4.76E-03	7.61E-05	1.85E-05	ND	ND	ND	ND	ND	ND	ND	3.79E-05	1.28E-04	2.62E-04	1.10E-05	6.60E-01
Renew. secondary fuels	MJ	4.14E-05	6.98E-06	2.15E-02	2.16E-02	9.92E-07	1.90E-07	ND	ND	ND	ND	ND	ND	ND	9.94E-08	1.62E-06	1.23E-05	2.31E-07	-1.07E-04
Non-ren. secondary fuels	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	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	1.64E-03	3.22E-04	4.29E-04	2.39E-03	2.61E-05	-6.46E-05	ND	ND	ND	ND	ND	ND	ND	5.49E-06	4.43E-05	9.64E-05	4.58E-05	-6.88E-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	1.22E-02	1.24E-02	3.19E-03	2.78E-02	1.16E-03	1.80E-04	ND	ND	ND	ND	ND	ND	ND	2.96E-04	5.72E-04	1.42E-03	1.05E-04	-4.33E-01
Non-hazardous waste	kg	4.31E-01	6.73E-02	7.58E-02	5.74E-01	2.30E-02	6.90E-02	ND	ND	ND	ND	ND	ND	ND	1.48E-03	1.07E-02	5.59E-02	1.71E-01	-4.90E+00
Radioactive waste	kg	1.20E-05	3.70E-07	1.47E-05	2.70E-05	3.64E-08	1.60E-08	ND	ND	ND	ND	ND	ND	ND	8.97E-09	6.38E-08	4.74E-07	6.22E-09	-3.46E-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	0.00E+00	0.00E+00	0.00E+00	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	4.25E-02	4.25E-02	0.00E+00	1.67E-02	ND	ND	ND	ND	ND	ND	ND	0.00E+00	0.00E+00	7.10E-01	0.00E+00	0.00E+00
Materials for energy rec	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	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	0.00E+00	9.02E-02	ND	ND	ND	ND	ND	ND	ND	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	0.00E+00	0.00E+00	0.00E+00	3.83E-02	ND	ND	ND	ND	ND	ND	ND	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Exported energy – Heat	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.19E-02	ND	ND	ND	ND	ND	ND	ND	0.00E+00	0.00E+00	0.00E+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	1.95E-01	2.06E-01	4.20E-02	4.43E-01	1.27E-02	4.86E-03	ND	ND	ND	ND	ND	ND	ND	7.01E-03	2.06E-02	1.59E-02	1.80E-03	-1.76E+00
Ozone depletion Pot.	kg $CFC_{-11}e$	6.68E-09	3.35E-09	4.36E-10	1.05E-08	1.48E-10	2.27E-11	ND	ND	ND	ND	ND	ND	ND	8.61E-11	2.44E-10	1.83E-10	4.13E-11	-1.02E-08
Acidification	kg SO_2e	1.47E-03	2.09E-03	9.91E-05	3.66E-03	3.38E-05	7.41E-06	ND	ND	ND	ND	ND	ND	ND	4.41E-05	5.39E-05	1.53E-04	9.27E-06	-6.82E-03
Eutrophication	kg PO_4^3e	9.40E-03	5.50E-04	6.21E-04	1.06E-02	9.15E-06	2.60E-06	ND	ND	ND	ND	ND	ND	ND	1.06E-05	1.32E-05	2.25E-05	3.87E-06	-1.03E-03
POCP (“smog”)	kg C_2H_4e	8.27E-05	1.27E-04	1.46E-05	2.25E-04	2.94E-06	8.49E-07	ND	ND	ND	ND	ND	ND	ND	3.32E-06	4.80E-06	9.05E-06	8.88E-07	-7.71E-04
ADP-elements	kg Sbe	1.33E-06	4.46E-07	2.81E-04	2.83E-04	3.55E-08	4.90E-09	ND	ND	ND	ND	ND	ND	ND	2.49E-09	5.64E-08	1.13E-06	2.67E-09	-1.23E-05

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	2.27E+00	2.59E+00	3.84E-01	5.24E+00	1.79E-01	2.40E-02	ND	ND	ND	ND	ND	ND	ND	9.08E-02	2.96E-01	1.83E-01	4.40E-02	-1.78E+01

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	2.39E+00	2.07E-01	4.22E-02	2.64E+00	1.27E-02	3.77E-03	ND	ND	ND	ND	ND	ND	ND	7.04E-03	2.07E-02	1.60E-02	1.82E-03	-1.77E+00

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. Electricity production, nuclear, boiling water reactor, United Kingdom, Ecoinvent, 0.0074 kgCO2e/kWh
2. Electricity production, photovoltaic, 570kWp open ground installation, multi-Si, United Kingdom, Ecoinvent, 0.0806 kgCO2e/kWh
3. Electricity production, wind, 1-3MW turbine, onshore, United Kingdom, Ecoinvent, 0.0141 kgCO2e/kWh
4. Natural gas heating (2010), United Kingdom, ProBas, 0.0734 kgCO2e/MJ
5. Electricity production, wind, 1-3MW turbine, offshore, United Kingdom, Ecoinvent, 0.0164 kgCO2e/kWh

Transport scenario documentation - A4 (Transport resources)

1. Market for transport, freight, lorry, >32 metric ton, diesel, EURO 5, 109.0 km

Transport to the building site (A4) - Scenario documentation

Scenario parameter	Value
Capacity utilization (including empty return) %	50
Bulk density of transported products	91.2
Volume capacity utilization factor	1

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)	Plastic packaging materials : Packaging film production, low density polyethylene: 0.00159 kg Packaging band polyethylene: 0.0000837 kg Wood packaging: Pallet - 0.05kg
Waste materials: output routes	Plastic packaging materials end-of-waste scenario: 23% of the plastic packaging is landfilled - 0.00039 kg 37% of the plastic packaging is incinerated - 0.00063 kg 40% of the plastic packaging is recycled - 0.00068 kg Wood packaging: Pallet - 0.05kg 30% of the wooden packaging is incinerated - 0.015 kg 32% of the wooden packaging is recycled - 0.016 kg 38% of the wooden packaging is landfilled - 0.019 kg
Direct emissions (kg)	-

End of life (C1-C4) - Scenario documentation

Scenario information	Value
Collection process: collected separately (kg)	All components are collected separated at end-of-life. mineral wool 100 % material for landfill = 0.17 kg Steel 85% recycling = 0.71kg 15% landfill = 0.12 kg
Collection process: Mixed waste (kg)	-
Recovery: re-use (kg)	0
Recovery: recycling (kg)	0.71
Recovery: energy recovery (kg)	0
Disposal (kg)	0.29
Scenario assumptions e.g. transportation (mode, km) & other	Transport, freight, lorry >32 metric ton, EURO6 - Europe

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

D.V as an authorized verifier for EPD Hub Limited 02.07.2026