ENVIRONMENTAL PRODUCT DECLARATION

IN ACCORDANCE WITH EN 15804+A2 & ISO 14025 / ISO 21930

CLA-A RE:3
Swegon Group AB

EPD HUB, HUB-1611
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Created with One Click LCA

GENERAL INFORMATION

MANUFACTURER

Manufacturer	Swegon Group AB
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Contact details	info@swegon.se
Website	https://www.swegon.com/

EPD STANDARDS, SCOPE AND VERIFICATION

Program operator	EPD Hub, hub@epdhub.com
Reference standard	EN 15804+A2:2019 and ISO 14025
PCR	EPD Hub Core PCR version 1.0, 1 Feb 2022
Sector	Construction product
Category of EPD	Third party verified EPD
Scope of the EPD	Cradle to gate with options, A4-A5, and modules C1-C4, D
EPD author	Sara Lindgren
EPD verification	Independent verification of this EPD and data, according to ISO 14025: ☐ Internal verification ☑ External verification
EPD verifier	Imane Uald lamkaddam, as an authorized verifier acting for EPD Hub Limited

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	CLA-A RE:3
Additional labels	-
Product reference	-
Place of production	Arvika, Sweden
Period for data	2022
Averaging in EPD	Multiple products
Variation in GWP-fossil for A1-A3	+1,9%/-1,3%

ENVIRONMENTAL DATA SUMMARY

Declared unit	kg
Declared unit mass	1 kg
GWP-fossil, A1-A3 (kgCO2e)	1,59E+00
GWP-total, A1-A3 (kgCO2e)	1,01E+00
Secondary material, inputs (%)	52.5
Secondary material, outputs (%)	45.5
Total energy use, A1-A3 (kWh)	8.39
Total water use, A1-A3 (m3e)	0.02

PRODUCT AND MANUFACTURER

ABOUT THE MANUFACTURER

People spend most of their time indoors, which is why we need a sound indoor climate for our health, well-being, and happiness. Swegon's ambition is to achieve the world's best indoor environment with the least possible impact on the external environment. Our business models, services, products, and systems are all designed to provide the right solution for each individual project.

Swegon Group AB is a market leading supplier in the field of indoor environment, offering solutions for ventilation, heating, cooling and climate optimization, as well as connected services and expert technical support. Swegon has subsidiaries in and distributors all over the world and 21 production plants in Europe, North America and India. The company employs more than 3 300 people.

PRODUCT DESCRIPTION

CLA-A RE:3 is an industrially fabricated product with recycled steel. Designed for excellent sound attenuation and ease of installation. The sound attenuator is the part of the air ventilation system whose only purpose is to reduce sound. This specific product variant can be used in circular ducts. It consists of steel, insulation material and some minor polymer. The expected lifetime of the product is 25 years.

Please visit https://www.swegon.com/products-and-services/air-distribution/silencers/circular-silencers/cla-a/ for more information on the product and further information can be found at https://www.swegon.com/.

PRODUCT RAW MATERIAL MAIN COMPOSITION

Raw material category	Amount, mass- %	Material origin
Metals	50	Europe
Minerals	46	Europe
Fossil materials	4	Europe
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	0.16

FUNCTIONAL UNIT AND SERVICE LIFE

Declared unit	kg
Mass per declared unit	1 kg
Functional unit	-
Reference service life	-

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	MND	MND	MND	MND	MND	MND	MND	x	x	x	x	x		
Raw materials	Transport	Manufacturing	Transport	Assembly	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	Deconstr./demol.	Transport	Waste processing	Disposal	Reuse	Recovery	Recycling

Modules not declared = MND. Modules not relevant = MNR.

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.

Swegon sound attenuator CLA-A RE:3 consists primarily of recycled steel and stone wool. The steel produced in upstream modules is supplied in the form of rolled sheets that are processed in Swegon's own facilities before the insulation material is added and the final product is formed. The electricity demand in the facilities is modelled using the site-specific renewable electricity mix that is supplied to Swegon consisting of 100% hydro power.

The waste streams from the manufacturing site include steel scrap, copper welding wire, and stone wool. Steel and copper are sent to material recycling while stone wool is disposed in landfill.

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.

Transportation to construction site is calculated based on a weighted average of sales and transportations in 2022. The product is sold ready to be installed and no raw material waste is generated from installation (A5). The end of life treatment of product packaging is declared and average EU scenario per packaging material has been applied with different ratios of recycling, incineration, and disposal in landfill.

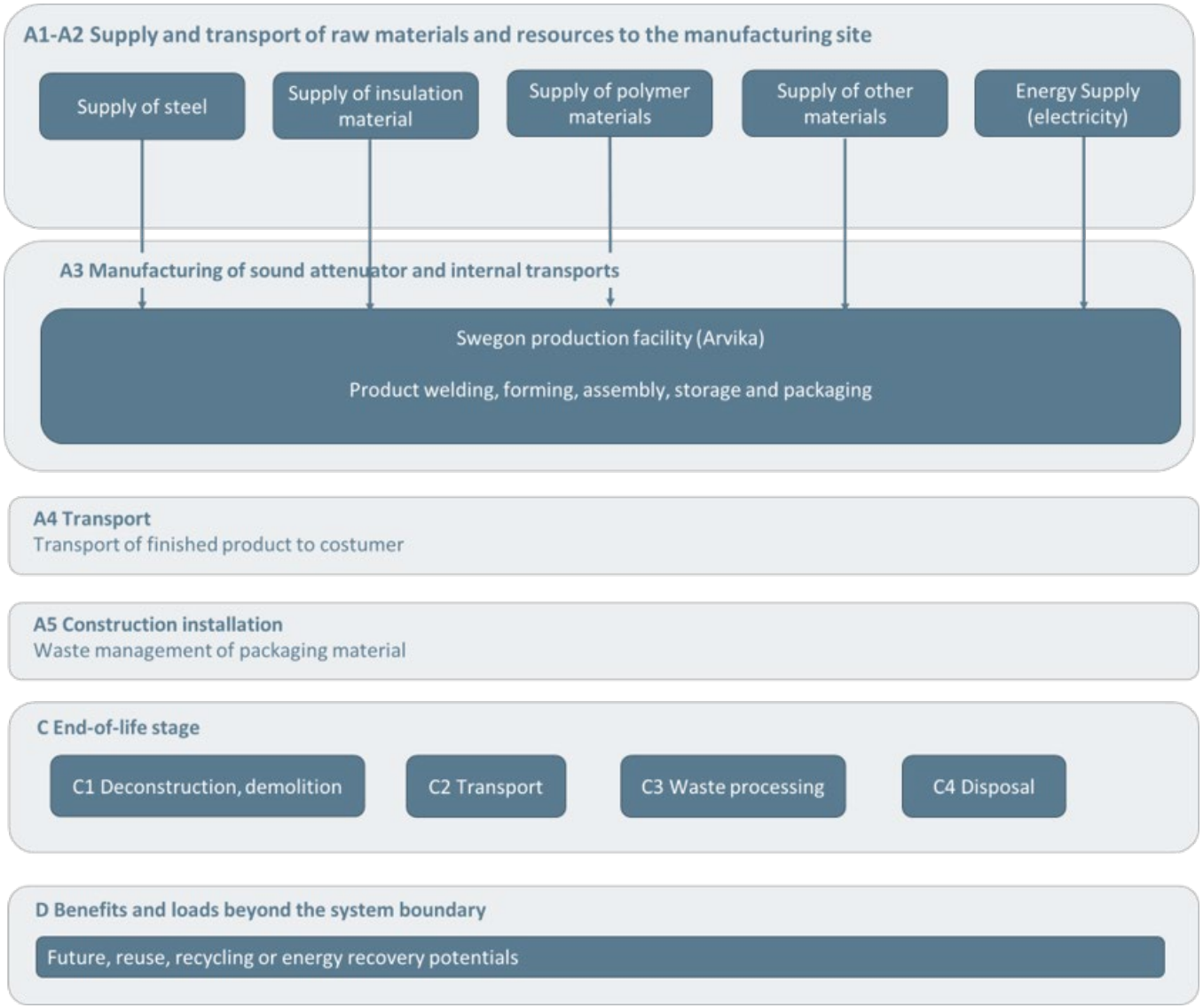
PRODUCT USE AND MAINTENANCE (B1-B7)

Module B is not declared. Air, soil, and water impacts during the use phase have not been studied.

PRODUCT END OF LIFE (C1-C4, D)

At the end of product life, the CLA-A RE:3 sound attenuator is assumed to be demolished. The impact of deconstruction (C1) is modelled based on literature data for energy use in demolition. Waste processing (C3) and disposal (C4) is modelled with consideration to the markets the sound attenuator is sold. The applied scenarios, which are based on literature data, include different ratios of material recycling, incineration, and landfill for the main materials steel, rock wool and plastics.

MANUFACTURING PROCESS



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.

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 materials	No allocation
Ancillary materials	Allocated by mass or volume
Manufacturing energy and waste	Allocated by mass or volume

AVERAGES AND VARIABILITY

Type of average	Multiple products
Averaging method	Averaged by shares of total mass
Variation in GWP-fossil for A1-A3	+1,9%/-1,3%

To investigate variations in environmental impact, two extreme product cases were modelled and analyzed. Based on these two models, an average was calculated based on weight. GWP fossil for modules A1-A3 for the size with the highest respective lowest impact included in this EPD, differs from the average with +1,9% respective -1,3%.

Please see list of included products and their corresponding weight in Annex 1.

LCA SOFTWARE AND BIBLIOGRAPHY

This EPD has been created using One Click LCA EPD Generator. The LCA and EPD have been prepared according to the reference standards and ISO 14040/14044. The EPD Generator uses Ecoinvent v3.8, Plastics Europe, Federal LCA Commons and One Click LCA databases as sources of environmental data.

ENVIRONMENTAL IMPACT DATA

CORE ENVIRONMENTAL IMPACT INDICATORS – EN 15804+A2, PEF

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	1,39E+00	7,82E-02	-4,60E-01	1,01E+00	1,14E-01	5,96E-01	MND	MND	MND	MND	MND	MND	MND	3,68E-04	1,41E-02	9,67E-02	2,42E-03	-8,40E-01
GWP – fossil	kg CO_2e	1,39E+00	7,81E-02	1,27E-01	1,59E+00	1,14E-01	7,81E-03	MND	MND	MND	MND	MND	MND	MND	3,68E-04	1,41E-02	9,67E-02	2,42E-03	-8,40E-01
GWP – biogenic	kg CO_2e	0,00E+00	0,00E+00	-5,88E-01	-5,88E-01	0,00E+00	5,88E-01	MND	MND	MND	MND	MND	MND	MND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
GWP – LULUC	kg CO_2e	7,46E-04	5,18E-05	8,15E-04	1,61E-03	4,79E-05	5,58E-06	MND	MND	MND	MND	MND	MND	MND	3,66E-08	5,85E-06	4,48E-06	2,28E-06	-2,70E-04
Ozone depletion pot.	kg CFC_{-11}e	9,87E-09	1,32E-08	1,66E-08	3,97E-08	2,46E-08	1,11E-09	MND	MND	MND	MND	MND	MND	MND	7,86E-11	3,10E-09	5,45E-09	9,78E-10	-3,46E-08
Acidification potential	mol H^+e	5,32E-03	4,69E-04	9,55E-04	6,74E-03	3,49E-04	4,71E-05	MND	MND	MND	MND	MND	MND	MND	3,82E-06	4,24E-05	2,69E-04	2,27E-05	-3,91E-03
EP-freshwater[2)]	kg Pe	8,75E-06	7,96E-07	8,17E-06	1,77E-05	9,66E-07	1,88E-07	MND	MND	MND	MND	MND	MND	MND	1,22E-09	1,20E-07	1,19E-07	2,53E-08	-3,67E-05
EP-marine	kg Ne	9,69E-04	1,74E-04	4,68E-04	1,61E-03	7,03E-05	2,58E-05	MND	MND	MND	MND	MND	MND	MND	1,69E-06	8,62E-06	1,19E-04	7,87E-06	-7,54E-04
EP-terrestrial	mol Ne	1,82E-02	1,91E-03	2,35E-03	2,24E-02	7,81E-04	1,81E-04	MND	MND	MND	MND	MND	MND	MND	1,85E-05	9,58E-05	1,29E-03	8,65E-05	-8,73E-03
POCP ("smog")[3)]	kg NMVOCe	2,95E-03	5,49E-04	8,52E-04	4,35E-03	2,89E-04	5,34E-05	MND	MND	MND	MND	MND	MND	MND	5,10E-06	3,62E-05	3,56E-04	2,52E-05	-4,08E-03
ADP-minerals & metals[4)]	kg Sbe	1,56E-05	2,99E-07	1,03E-05	2,62E-05	4,03E-07	2,48E-08	MND	MND	MND	MND	MND	MND	MND	1,86E-10	4,74E-08	2,74E-08	5,55E-09	-1,33E-05
ADP-fossil resources	MJ	1,33E+01	1,08E+00	2,16E+00	1,65E+01	1,65E+00	1,05E-01	MND	MND	MND	MND	MND	MND	MND	4,95E-03	2,08E-01	3,51E-01	6,62E-02	-8,81E+00
Water use[5)]	m^3e depr.	2,12E-01	6,67E-03	1,03E-01	3,22E-01	7,30E-03	9,20E-03	MND	MND	MND	MND	MND	MND	MND	1,33E-05	9,20E-04	3,14E-03	2,10E-04	-1,49E-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, PEF

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	1,38E-07	7,49E-09	1,12E-08	1,56E-07	9,06E-09	7,37E-10	MND	MND	MND	MND	MND	MND	MND	1,02E-10	1,21E-09	7,36E-09	4,58E-10	-6,16E-08
Ionizing radiation[6)]	kBq U235e	3,82E-02	5,79E-03	1,48E-02	5,87E-02	7,73E-03	9,54E-04	MND	MND	MND	MND	MND	MND	MND	2,27E-05	9,76E-04	1,60E-03	3,00E-04	5,26E-03
Ecotoxicity (freshwater)	CTUe	7,51E+00	9,56E-01	3,65E+00	1,21E+01	1,51E+00	1,40E-01	MND	MND	MND	MND	MND	MND	MND	2,97E-03	1,89E-01	2,64E-01	4,32E-02	-2,71E+01
Human toxicity, cancer	CTUh	1,93E-09	4,77E-11	3,56E-02	3,56E-02	4,28E-11	9,01E-12	MND	MND	MND	MND	MND	MND	MND	1,14E-13	5,21E-12	1,52E-11	1,08E-12	5,68E-09
Human tox. non-cancer	CTUh	5,10E-08	9,39E-10	9,36E-02	9,36E-02	1,37E-09	3,53E-10	MND	MND	MND	MND	MND	MND	MND	2,15E-12	1,74E-10	2,70E-10	2,83E-11	-1,80E-08
SQP[7)]	-	5,66E+00	7,34E-01	4,61E+01	5,25E+01	1,15E+00	1,33E-01	MND	MND	MND	MND	MND	MND	MND	6,43E-04	1,63E-01	8,47E-02	1,42E-01	-2,61E+01

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	8,65E+00	2,17E-02	4,42E+00	1,31E+01	1,96E-02	5,47E-03	MND	MND	MND	MND	MND	MND	MND	2,83E-05	2,44E-03	2,73E-03	5,75E-04	-3,77E+00
Renew. PER as material	MJ	0,00E+00	0,00E+00	5,14E+00	5,14E+00	0,00E+00	-5,14E+00	MND	MND	MND	MND	MND	MND	MND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Total use of renew. PER	MJ	8,65E+00	2,17E-02	9,56E+00	1,82E+01	1,96E-02	-5,14E+00	MND	MND	MND	MND	MND	MND	MND	2,83E-05	2,44E-03	2,73E-03	5,75E-04	-3,77E+00
Non-re. PER as energy	MJ	1,40E+01	1,08E+00	1,80E+00	1,69E+01	1,65E+00	1,05E-01	MND	MND	MND	MND	MND	MND	MND	4,95E-03	2,08E-01	3,51E-01	6,63E-02	-7,88E+00
Non-re. PER as material	MJ	1,33E+00	0,00E+00	3,54E-01	1,69E+00	0,00E+00	-3,54E-01	MND	MND	MND	MND	MND	MND	MND	0,00E+00	0,00E+00	-1,33E+00	0,00E+00	0,00E+00
Total use of non-re. PER	MJ	1,54E+01	1,08E+00	2,16E+00	1,86E+01	1,65E+00	-2,49E-01	MND	MND	MND	MND	MND	MND	MND	4,95E-03	2,08E-01	-9,83E-01	6,63E-02	-7,88E+00
Secondary materials	kg	5,25E-01	7,92E-04	4,18E-02	5,68E-01	5,53E-04	7,81E-05	MND	MND	MND	MND	MND	MND	MND	1,94E-06	6,72E-05	1,78E-04	1,39E-05	4,28E-01
Renew. secondary fuels	MJ	5,71E-05	4,62E-06	1,65E-01	1,65E-01	7,13E-06	7,36E-07	MND	MND	MND	MND	MND	MND	MND	6,33E-09	8,41E-07	8,71E-07	3,64E-07	-1,12E-04
Non-ren. secondary fuels	MJ	0,00E+00	0,00E+00	1,52E-04	1,52E-04	0,00E+00	0,00E+00	MND	MND	MND	MND	MND	MND	MND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Use of net fresh water	m^3	1,37E-02	1,67E-04	2,42E-03	1,63E-02	1,97E-04	3,93E-05	MND	MND	MND	MND	MND	MND	MND	3,00E-07	2,51E-05	4,47E-05	7,25E-05	-2,63E-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	6,11E-02	2,52E-03	8,73E-03	7,24E-02	2,39E-03	2,41E-04	MND	MND	MND	MND	MND	MND	MND	6,62E-06	2,96E-04	5,52E-04	0,00E+00	-2,36E-01
Non-hazardous waste	kg	3,59E-01	3,33E-02	2,11E-01	6,04E-01	3,81E-02	2,77E-01	MND	MND	MND	MND	MND	MND	MND	4,65E-05	4,74E-03	1,12E-01	4,59E-01	-1,55E+00
Radioactive waste	kg	1,81E-04	7,45E-06	1,13E-05	2,00E-04	1,10E-05	3,56E-07	MND	MND	MND	MND	MND	MND	MND	3,48E-08	1,39E-06	2,31E-06	0,00E+00	-5,53E-06

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	MND	MND	MND	MND	MND	MND	MND	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	6,05E-03	6,05E-03	0,00E+00	1,20E-01	MND	MND	MND	MND	MND	MND	MND	0,00E+00	0,00E+00	4,32E-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	1,20E-01	MND	MND	MND	MND	MND	MND	MND	0,00E+00	0,00E+00	2,30E-02	0,00E+00	0,00E+00
Exported energy	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,25E+00	MND	MND	MND	MND	MND	MND	MND	0,00E+00	0,00E+00	7,10E-01	0,00E+00	0,00E+00

ENVIRONMENTAL IMPACTS – EN 15804+A1, CML / ISO 21930

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	1,05E+00	6,03E-02	1,26E-01	1,23E+00	1,13E-01	1,97E-02	MND	MND	MND	MND	MND	MND	MND	3,64E-04	1,40E-02	9,62E-02	2,37E-03	-7,99E-01
Ozone depletion Pot.	kg CFC_{-11}e	4,14E-08	7,39E-09	1,40E-08	6,28E-08	1,95E-08	8,96E-10	MND	MND	MND	MND	MND	MND	MND	6,22E-11	2,45E-09	4,32E-09	7,74E-10	-3,61E-08
Acidification	kg SO_2e	5,74E-03	3,09E-04	7,44E-04	6,80E-03	2,86E-04	3,54E-05	MND	MND	MND	MND	MND	MND	MND	2,72E-06	3,47E-05	1,92E-04	1,72E-05	-3,19E-03
Eutrophication	kg PO_4^3e	1,60E-03	7,96E-05	3,39E-04	2,02E-03	6,18E-05	4,74E-04	MND	MND	MND	MND	MND	MND	MND	6,32E-07	7,64E-06	1,17E-04	3,70E-06	-1,47E-03
POCP ("smog")	kg C_2H_4e	4,15E-04	1,08E-05	7,37E-05	4,99E-04	1,39E-05	4,04E-06	MND	MND	MND	MND	MND	MND	MND	5,96E-08	1,70E-06	4,74E-06	7,20E-07	-4,47E-04
ADP-elements	kg Sbe	9,63E-06	2,33E-07	1,03E-05	2,02E-05	3,94E-07	2,37E-08	MND	MND	MND	MND	MND	MND	MND	1,83E-10	4,62E-08	2,67E-08	5,47E-09	-1,32E-05
ADP-fossil	MJ	1,38E+01	8,30E-01	2,14E+00	1,68E+01	1,65E+00	1,05E-01	MND	MND	MND	MND	MND	MND	MND	4,95E-03	2,08E-01	3,51E-01	6,62E-02	-8,81E+00

ENVIRONMENTAL IMPACTS – ISO 21930

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Radioactive waste, high	kg	4,77E-07	9,51E-08	7,66E-07	1,34E-06	8,63E-08	4,05E-08	MND	MND	MND	MND	MND	MND	MND	MNR	0,00E+00	0,00E+00	0,00E+00	4,37E-07
Radioactive waste, int/low	kg	4,04E-06	7,36E-06	6,49E-06	1,79E-05	1,09E-05	5,68E-07	MND	MND	MND	MND	MND	MND	MND	3,47E-08	1,37E-06	2,39E-06	4,40E-07	-5,96E-06

ENVIRONMENTAL IMPACTS – GWP-GHG - THE INTERNATIONAL EPD SYSTEM

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	1,39E+00	7,81E-02	1,27E-01	1,59E+00	1,14E-01	7,81E-03	MND	MND	MND	MND	MND	MND	MND	3,68E-04	1,41E-02	9,67E-02	2,42E-03	-8,40E-01

9) This indicator includes all greenhouse gases excluding biogenic carbon dioxide uptake and emissions and biogenic carbon stored in the product as defined by IPCC AR 5 (IPCC 2013). In addition, the characterisation factors for the flows - CH4 fossil, CH4 biogenic and Dinitrogen monoxide - were updated in line with the guidance of IES PCR 1.2.5 Annex 1. This indicator is identical to the GWP-total of EN 15804:2012+A2:2019 except that the characterization factor for biogenic CO2 is set to zero.

VERIFICATION STATEMENT

VERIFICATION PROCESS FOR THIS EPD

This EPD has been verified in accordance with ISO 14025 by an independent, third-party verifier by reviewing results, documents and compliancy with reference standard, ISO 14025 and ISO 14040/14044, following the process and checklists of the program operator for:

- This Environmental Product Declaration
- The Life-Cycle Assessment used in this EPD
- The digital background data for this EPD

Why does verification transparency matter? Read more online
This EPD has been generated by One Click LCA EPD generator, which has been verified and approved by the EPD Hub.

THIRD-PARTY VERIFICATION STATEMENT

I hereby confirm that, following detailed examination, I have not established any relevant deviations by the studied Environmental Product Declaration (EPD), its LCA and project report, in terms of the data collected and used in the LCA calculations, the way the LCA-based calculations have been carried out, the presentation of environmental data in the EPD, and other additional environmental information, as present with respect to the procedural and methodological requirements in ISO 14025:2010 and reference standard.

I confirm that the company-specific data has been examined as regards plausibility and consistency; the declaration owner is responsible for its factual integrity and legal compliance.

I confirm that I have sufficient knowledge and experience of construction products, this specific product category, the construction industry, relevant standards, and the geographical area of the EPD to carry out this verification.

I confirm my independence in my role as verifier; I have not been involved in the execution of the LCA or in the development of the declaration and have no conflicts of interest regarding this verification.

Imane Uald lamkaddam, as an authorized verifier acting for EPD Hub Limited
11.07.2024

ANNEX 1

PRODUCTS INCLUDED IN THIS EPD

This EPD concerns the Swegon sound attenuator CLA-A RE:3 representing an average environmental performance for several sizes as listed in the table below. The GWP-GHG impact presented per size below has been calculated based on the GWP-GHG for A1-A3 presented in this EPD, multiplied with the respective weight.

Article number	Product name	Total weight (kg)	GWP-GHG, A1-A3 (kg CO_2e/item)
910654111	CLA-A 100-500 RE:3	3	4,77
910654112	CLA-A 125-500 RE:3	3,7	5,88
910654113	CLA-A 160-500 RE:3	4,7	7,47
910654114	CLA-A 200-500 RE:3	6	9,54
910654115	CLA-A 250-500 RE:3	7,8	12,40
910654116	CLA-A 315-500 RE:3	10,1	16,06
910654117	CLA-A 400-500 RE:3	13,7	21,78
910654211	CLA-A 100-1000 RE:3	5,7	9,06
910654212	CLA-A 125-1000 RE:3	6,9	10,97
910654213	CLA-A 160-1000 RE:3	8,7	13,83
910654214	CLA-A 200-1000 RE:3	11,2	17,81
910654215	CLA-A 250-1000 RE:3	14,6	23,21
910654216	CLA-A 315-1000 RE:3	18,9	30,05
910654217	CLA-A 400-1000 RE:3	25,4	40,39