



ENVIRONMENTAL PRODUCT DECLARATION

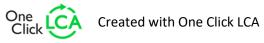
IN ACCORDANCE WITH EN 15804+A2 & ISO 14025

Fire Damper EKO-SRB1, Ekovent AB
EPD of multiple products, based on the results of a representative product



EPD HUB, HUB-3778

Published on 10.08.2025, last updated on 10.08.2025, valid until 09.08.2030









GENERAL INFORMATION

MANUFACTURER

| Manufacturer | Ekovent AB |
|-----------------|---------------------------------|
| Address | Mejselgatan 7, Vellinge, Sweden |
| Contact details | info@ekovent.se |
| Website | www.ekovent.se |

EPD STANDARDS, SCOPE AND VERIFICATION

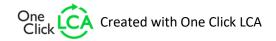
| Program operator | EPD Hub, hub@epdhub.com |
|--------------------|---|
| Reference standard | EN 15804+A2:2019 and ISO 14025 |
| PCR | EPD Hub Core PCR Version 1.1, 5 Dec 2023 |
| Sector | Construction product |
| Category of EPD | Third party verified EPD |
| Parent EPD number | |
| Scope of the EPD | Cradle to gate with options, A4-A5, B2, B6, and modules C1-C4, D |
| EPD author | Van Dong |
| EPD verification | Independent verification of this EPD and data, according to ISO 14025: ☐ Internal verification ☑ External verification |
| EPD verifier | Haiha Nguyen, 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

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| Product name | EKO-SRB1 |
|-----------------------------------|--------------------|
| Additional labels | Appendix 1 |
| Product reference | - |
| Place of production | Vellinge, Sweden |
| Period for data | Calendar year 2023 |
| Averaging in EPD | No averaging |
| Variation in GWP-fossil for A1-A3 | N/A |







ENVIRONMENTAL DATA SUMMARY

| Declared unit | 1 kg of EKO-SRB1-125 fire damper with electric actuator |
|---|---|
| Declared unit mass | 1 kg |
| GWP-fossil, A1-A3 (kgCO ₂ e) | 4,03E+00 |
| GWP-total, A1-A3 (kgCO ₂ e) | 3,99E+00 |
| Secondary material, inputs (%) | 14,6 |
| Secondary material, outputs (%) | 78,3 |
| Total energy use, A1-A3 (kWh) | 13,6 |
| Net freshwater use, A1-A3 (m³) | 0,02 |





PRODUCT AND MANUFACTURER

ABOUT THE MANUFACTURER

EKOVENT is one of Sweden's leading companies and has for more than 50 years developed, manufactured, and marketed products for ventilation and fire protection.

PRODUCT DESCRIPTION

The EKO-SRB1 is a CE-certified damper classified as E60S, designed to prevent the spread of fire gases in ventilation ducts. It is intended for installation in ducts at fire-separating building components constructed according to fire resistance class up to E160.

EKO-SRB1 is manufactured in 9 standard sizes from $\emptyset100$ mm to $\emptyset630$ mm. This EPD covers all product sizes in the EKO-SRB1 series. GWP-total, GWP-GHG, and GWP-fossil values are presented in Appendix 1. The data used in this EPD are calculated based on one kilogram of the representative product, EKO-SRB1-125.

Further information can be found at www.ekovent.se.

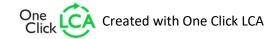
PRODUCT RAW MATERIAL MAIN COMPOSITION

| Raw material category | Amount, mass % | Material origin | | | | | |
|-----------------------|----------------|-----------------|--|--|--|--|--|
| Metals | 88 | EU, Asia | | | | | |
| Fossil materials | 12 | EU | | | | | |

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 | 0,011 |







FUNCTIONAL UNIT AND SERVICE LIFE

| Declared unit | 1 kg of EKO-SRB1-125 fire damper with electric actuator |
|------------------------|---|
| 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.

| Pro | duct s | tage | | mbly age | | | U | se sta | ge | | | Er | nd of I | ife sta | ge | ! | Beyond the system boundaries | | | | |
|---------------|-----------|---------------|-----------|-------------|-----|-------------|--------|-------------|---------------|------------------------|-----------------------|----------------------------|-----------|------------------|----------|-------|------------------------------------|-----------|--|--|--|
| A1 | A2 | А3 | A4 | A5 | B1 | B2 | В3 | B4 | В5 | В6 | B7 | C1 | C2 | С3 | C4 | | | | | | |
| × | × | × | × | × | MND | × | MND | MND | MND | × | MND | × | × | × | × | | × | | | | |
| 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 | | | |

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.

The raw materials and ancillary materials are transported to the production facility of Ekovent AB. It is assumed that all transport is carried out using lorries, with transport distances calculated from the suppliers' warehouses to the manufacturing site. After quality inspection at the production facility, steel components undergo punching and bending. All components are then assembled.

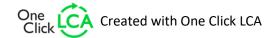
The power required to produce the fire damper is sourced from 100% wind power, the facility is heated by biogas, and all production waste is transported by lorries to a recycling company. The finished product is packed in a manner appropriate for its specific size, using materials such as wooden pallets and cardboard.

TRANSPORT AND INSTALLATION (A4-A5)

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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. A4 includes the transportation of the product and its packaging, shipped on pallets, to the installation site. An average transportation distance of 425 km is assumed.

The installation process (A5) is included and covers the energy use of 0.1 kWh per kg of product, based on the assumption of using an electric drill. There are no material losses during installation, and the environmental impact is limited to minimal electricity consumption. Waste management of the packaging is also included in A5. The cardboard packaging is assumed to be 90% recycled and 10% landfilled, while the wooden pallet is incinerated with energy recovery.







PRODUCT USE AND MAINTENANCE (B2, B6)

A small amount of energy (0.01 kWh) is assumed to be consumed over the full 25-year service life for periodic inspection tests (B2). During regular operation, the actuator continuously draws 2 W in standby mode. Once per month, it performs a 60-second test cycle, during which energy use increases to 7 W. The total annual energy consumption is therefore calculated to be 17.52 kWh/year (B6).

According to industry standards, the estimated service life of the fire damper is 25 years. Since the product is primarily distributed within Sweden, the environmental impact has been modelled using the Swedish electricity mix. Replacement of components or parts is not included.

Air, soil, and water impacts during the use phase have not been studied.

PRODUCT END OF LIFE (C1-C4, D)

Energy for deconstruction is included in C1. The transportation distance to the local recycling center is assumed to be 50 km, and the transportation method is assumed to be by lorry in C2.

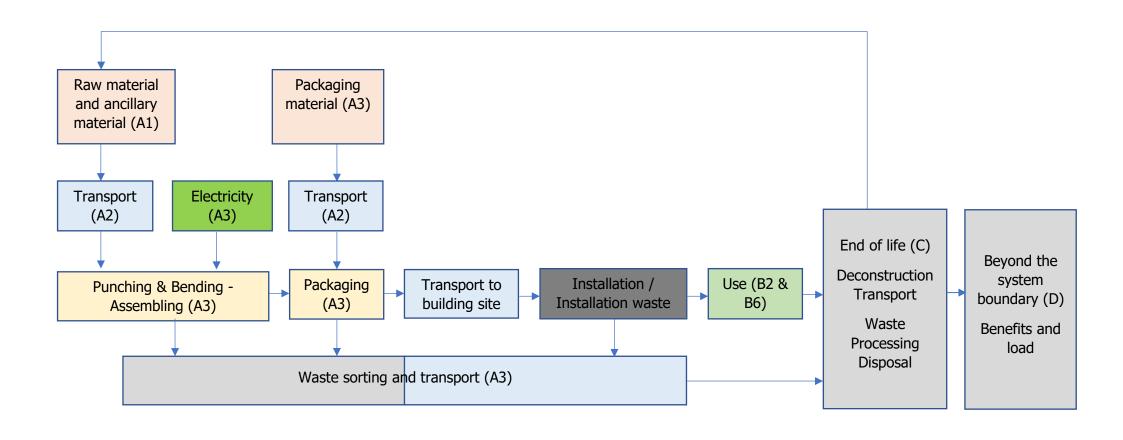
Activities related to steel recycling are included in C3 and C4. For the steel content, a recycling rate of 85% and a landfill rate of 15% have been assumed (World Steel 2020). This is considered as the proportion of the material in the product that will be recycled in a subsequent system.

It is assumed that 70% of plastics are incinerated, with the remaining 30% being recycled. (Lindab Sustainability Rapport 2022). For electronic components, 76.3% are recycled according to local statistics, while the remaining 23.7% are sent to landfill (Statista 2021). Benefits and loads from the energy recovery processes of packaging materials are reported in module D.





MANUFACTURING PROCESS AND SYSTEM BOUNDARY



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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 material | Allocated by mass or volume |
| Ancillary materials | Allocated by mass or volume |
| Manufacturing energy and waste | Allocated by mass or volume |

AVERAGES AND VARIABILITY

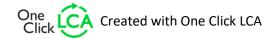
| Type of average | No averaging |
|-----------------------------------|----------------|
| Averaging method | Not applicable |
| Variation in GWP-fossil for A1-A3 | N/A |

This EPD is product and factory specific and does not contain average calculations.

LCA SOFTWARE AND BIBLIOGRAPHY

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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 v3.10.1 and One Click LCA databases as sources of environmental data.





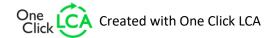


ENVIRONMENTAL IMPACT DATA

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

| Impact category | Unit | A1 | A2 | А3 | A1-A3 | A4 | A5 | B1 | B2 | В3 | B4 | B5 | В6 | В7 | C1 | C2 | С3 | C4 | D |
|--------------------------------------|--------------|----------|----------|-----------|-----------|----------|----------|-----|----------|-----|-----|-----|----------|-----|----------|----------|----------|----------|-----------|
| GWP – total ¹⁾ | kg CO₂e | 3,81E+00 | 1,90E-01 | -1,68E-02 | 3,99E+00 | 9,84E-02 | 5,30E-02 | MND | 3,68E-04 | MND | MND | MND | 2,02E-03 | MND | 3,68E-04 | 9,36E-03 | 1,48E-01 | 9,08E-04 | -1,10E+00 |
| GWP – fossil | kg CO₂e | 3,81E+00 | 1,90E-01 | 2,66E-02 | 4,03E+00 | 9,84E-02 | 8,93E-03 | MND | 3,30E-04 | MND | MND | MND | 1,82E-03 | MND | 3,30E-04 | 9,36E-03 | 1,48E-01 | 9,08E-04 | -1,10E+00 |
| GWP – biogenic | kg CO₂e | 0,00E+00 | 0,00E+00 | -4,37E-02 | -4,37E-02 | 0,00E+00 | 4,37E-02 | MND | 0,00E+00 | MND | MND | MND | 0,00E+00 | MND | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| GWP – LULUC | kg CO₂e | 1,47E-03 | 7,64E-05 | 1,72E-04 | 1,72E-03 | 3,53E-05 | 3,73E-04 | MND | 3,71E-05 | MND | MND | MND | 2,04E-04 | MND | 3,71E-05 | 3,38E-06 | 2,60E-05 | 6,48E-07 | -1,18E-03 |
| Ozone depletion pot. | kg CFC- | 2,17E-07 | 3,31E-09 | 4,17E-10 | 2,21E-07 | 1,96E-09 | 1,78E-10 | MND | 9,90E-12 | MND | MND | MND | 5,44E-11 | MND | 9,90E-12 | 1,85E-10 | 3,12E-10 | 2,42E-11 | -6,73E-09 |
| Acidification potential | mol H⁺e | 1,99E-02 | 5,57E-04 | 1,73E-04 | 2,07E-02 | 2,05E-04 | 7,85E-05 | MND | 4,05E-06 | MND | MND | MND | 2,23E-05 | MND | 4,05E-06 | 1,97E-05 | 2,51E-04 | 6,28E-06 | -5,06E-03 |
| EP-freshwater ²⁾ | kg Pe | 2,83E-03 | 1,37E-05 | 1,52E-05 | 2,86E-03 | 6,62E-06 | 4,52E-06 | MND | 2,93E-07 | MND | MND | MND | 1,61E-06 | MND | 2,93E-07 | 6,32E-07 | 1,20E-05 | 1,11E-07 | -4,75E-04 |
| EP-marine | kg Ne | 3,62E-03 | 1,61E-04 | 4,55E-05 | 3,83E-03 | 4,92E-05 | 2,47E-05 | MND | 5,97E-07 | MND | MND | MND | 3,28E-06 | MND | 5,97E-07 | 4,79E-06 | 1,48E-04 | 2,29E-06 | -1,14E-03 |
| EP-terrestrial | mol Ne | 5,20E-02 | 1,75E-03 | 4,47E-04 | 5,41E-02 | 5,30E-04 | 2,40E-04 | MND | 6,10E-06 | MND | MND | MND | 3,35E-05 | MND | 6,10E-06 | 5,17E-05 | 7,26E-04 | 2,50E-05 | -1,37E-02 |
| POCP ("smog") ³) | kg NMVOCe | 1,22E-02 | 8,26E-04 | 1,54E-04 | 1,32E-02 | 3,40E-04 | 6,59E-05 | MND | 1,62E-06 | MND | MND | MND | 8,93E-06 | MND | 1,62E-06 | 3,27E-05 | 2,14E-04 | 8,88E-06 | -4,12E-03 |
| ADP-minerals & metals ⁴) | kg Sbe | 1,61E-04 | 5,80E-07 | 5,58E-07 | 1,62E-04 | 3,27E-07 | 4,14E-07 | MND | 3,97E-08 | MND | MND | MND | 2,18E-07 | MND | 3,97E-08 | 3,11E-08 | 1,22E-06 | 2,18E-09 | -1,06E-05 |
| ADP-fossil resources | MJ | 4,30E+01 | 2,71E+00 | 3,71E-01 | 4,61E+01 | 1,38E+00 | 5,02E-01 | MND | 4,42E-02 | MND | MND | MND | 2,43E-01 | MND | 4,42E-02 | 1,32E-01 | 2,89E-01 | 2,11E-02 | -1,18E+01 |
| Water use ⁵⁾ | m³e depr. | 1,00E+00 | 1,34E-02 | 1,17E-02 | 1,03E+00 | 6,88E-03 | 3,12E-02 | MND | 2,44E-03 | MND | MND | MND | 1,34E-02 | MND | 2,44E-03 | 6,55E-04 | 1,27E-02 | 8,11E-05 | -2,88E-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

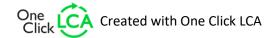
| Impact category | Unit | A1 | A2 | А3 | A1-A3 | A4 | A5 | B1 | B2 | В3 | B4 | B5 | В6 | В7 | C1 | C2 | C3 | C4 | D |
|----------------------------------|---------------|----------|----------|----------|----------|----------|----------|-----|----------|-----|-----|-----|----------|-----|----------|----------|----------|----------|-----------|
| Particulate matter | Incidence | 1,53E-07 | 1,63E-08 | 2,55E-09 | 1,72E-07 | 7,25E-09 | 8,68E-10 | MND | 3,37E-11 | MND | MND | MND | 1,85E-10 | MND | 3,37E-11 | 6,94E-10 | 3,20E-09 | 1,36E-10 | -8,17E-08 |
| Ionizing radiation ⁶⁾ | kBq 11235e | 1,38E-01 | 2,93E-03 | 2,63E-03 | 1,43E-01 | 1,78E-03 | 3,18E-02 | MND | 3,17E-03 | MND | MND | MND | 1,75E-02 | MND | 3,17E-03 | 1,69E-04 | 2,16E-03 | 2,49E-05 | -9,25E-02 |
| Ecotoxicity (freshwater) | CTUe | 1,14E+02 | 3,70E-01 | 1,61E-01 | 1,14E+02 | 1,84E-01 | 8,36E-02 | MND | 5,54E-03 | MND | MND | MND | 3,05E-02 | MND | 5,54E-03 | 1,75E-02 | 5,08E-01 | 1,99E-03 | -2,82E+00 |
| Human toxicity, cancer | CTUh | 4,54E-07 | 3,17E-11 | 3,28E-11 | 4,54E-07 | 1,65E-11 | 1,29E-11 | MND | 6,53E-13 | MND | MND | MND | 3,59E-12 | MND | 6,53E-13 | 1,57E-12 | 5,59E-11 | 1,83E-13 | -2,42E-10 |
| Human tox. non- | CTUh | 1,54E-07 | 1,73E-09 | 6,88E-10 | 1,56E-07 | 8,75E-10 | 7,58E-10 | MND | 3,41E-11 | MND | MND | MND | 1,88E-10 | MND | 3,41E-11 | 8,34E-11 | 1,58E-09 | 6,40E-12 | -1,09E-08 |
| SQP ⁷⁾ | - | 8,79E+00 | 2,15E+00 | 3,82E+00 | 1,48E+01 | 8,36E-01 | 1,32E-01 | MND | 1,04E-02 | MND | MND | MND | 5,73E-02 | MND | 1,04E-02 | 8,07E-02 | 5,12E-01 | 3,96E-02 | -1,91E+01 |

⁶⁾ EN 15804+A2 disclaimer for lonizing 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 | А3 | A1-A3 | A4 | A5 | B1 | B2 | В3 | B4 | B5 | В6 | В7 | C1 | C2 | С3 | C4 | D |
|------------------------------------|------|----------|----------|----------|----------|----------|---------------|-----|----------|-----|-----|-----|----------|-----|----------|----------|---------------|----------|-----------|
| Renew. PER as energy ⁸⁾ | MJ | 3,51E+00 | 4,23E-02 | 2,89E+00 | 6,45E+00 | 2,42E-02 | - 3,38E+00 | MND | 3,03E-02 | MND | MND | MND | 1,67E-01 | MND | 3,03E-02 | 2,30E-03 | 4,61E-02 | 3,67E-04 | -5,45E+00 |
| Renew. PER as material | MJ | 4,40E-04 | 0,00E+00 | 4,28E-01 | 4,29E-01 | 0,00E+00 | -4,28E-01 | MND | 0,00E+00 | MND | MND | MND | 0,00E+00 | MND | 0,00E+00 | 0,00E+00 | -4,40E-04 | 0,00E+00 | 0,00E+00 |
| Total use of renew. PER | MJ | 3,51E+00 | 4,23E-02 | 3,32E+00 | 6,88E+00 | 2,42E-02 | - 3,81E+00 | MND | 3,03E-02 | MND | MND | MND | 1,67E-01 | MND | 3,03E-02 | 2,30E-03 | 4,57E-02 | 3,67E-04 | -5,45E+00 |
| Non-re. PER as energy | MJ | 3,94E+01 | 2,71E+00 | 3,56E-01 | 4,25E+01 | 1,38E+00 | 5,02E-01 | MND | 4,42E-02 | MND | MND | MND | 2,43E-01 | MND | 4,42E-02 | 1,32E-01 | - 4,29E+00 | 2,11E-02 | -8,62E+00 |
| Non-re. PER as material | MJ | 4,35E+00 | 0,00E+00 | 7,99E-03 | 4,36E+00 | 0,00E+00 | -7,99E-03 | MND | 0,00E+00 | MND | MND | MND | 0,00E+00 | MND | 0,00E+00 | 0,00E+00 | - 4,35E+00 | 0,00E+00 | 0,00E+00 |
| Total use of non-re. PER | MJ | 4,38E+01 | 2,71E+00 | 3,64E-01 | 4,69E+01 | 1,38E+00 | 4,94E-01 | MND | 4,42E-02 | MND | MND | MND | 2,43E-01 | MND | 4,42E-02 | 1,32E-01 | - 8,64E+00 | 2,11E-02 | -8,62E+00 |
| Secondary materials | kg | 1,46E-01 | 1,21E-03 | 6,72E-03 | 1,54E-01 | 6,42E-04 | 1,74E-04 | MND | 8,64E-06 | MND | MND | MND | 4,75E-05 | MND | 8,64E-06 | 6,10E-05 | 4,25E-04 | 5,34E-06 | 5,10E-01 |
| Renew. secondary fuels | MJ | 5,57E-04 | 1,52E-05 | 4,20E-03 | 4,78E-03 | 8,12E-06 | 7,56E-07 | MND | 3,93E-08 | MND | MND | MND | 2,16E-07 | MND | 3,93E-08 | 7,72E-07 | 1,47E-05 | 1,58E-07 | 1,39E-03 |
| Non-ren. secondary fuels | MJ | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | MND | 0,00E+00 | MND | MND | MND | 0,00E+00 | MND | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| Use of net fresh water | m³ | 2,03E-02 | 3,83E-04 | 2,84E-04 | 2,10E-02 | 1,89E-04 | 6,27E-04 | MND | 5,80E-05 | MND | MND | MND | 3,19E-04 | MND | 5,80E-05 | 1,80E-05 | 1,81E-04 | 2,14E-05 | -4,83E-03 |

⁸⁾ PER = Primary energy resources.







END OF LIFE – WASTE

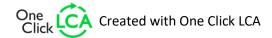
| Impact category | Unit | A1 | A2 | А3 | A1-A3 | A4 | A5 | B1 | B2 | В3 | B4 | B5 | В6 | В7 | C1 | C2 | С3 | C4 | D |
|---------------------|------|----------|----------|----------|----------|----------|----------|-----|----------|-----|-----|-----|----------|-----|----------|----------|----------|----------|-----------|
| Hazardous waste | kg | 4,31E-01 | 4,25E-03 | 3,92E-03 | 4,39E-01 | 2,01E-03 | 1,83E-03 | MND | 4,51E-05 | MND | MND | MND | 2,48E-04 | MND | 4,51E-05 | 1,92E-04 | 4,07E-03 | 3,08E-05 | -3,50E-01 |
| Non-hazardous waste | kg | 8,07E+00 | 8,37E-02 | 6,22E-02 | 8,21E+00 | 4,24E-02 | 2,23E-01 | MND | 1,49E-03 | MND | MND | MND | 8,22E-03 | MND | 1,49E-03 | 4,04E-03 | 2,49E-01 | 7,16E-04 | -2,86E+00 |
| Radioactive waste | kg | 1,55E-04 | 7,25E-07 | 6,71E-07 | 1,56E-04 | 4,43E-07 | 6,80E-06 | MND | 6,78E-07 | MND | MND | MND | 3,73E-06 | MND | 6,78E-07 | 4,19E-08 | 5,54E-07 | 6,07E-09 | -1,83E-05 |

END OF LIFE – OUTPUT FLOWS

| Impact category | Unit | A1 | A2 | А3 | A1-A3 | A4 | A5 | B1 | B2 | В3 | B4 | B5 | В6 | В7 | C1 | C2 | С3 | C4 | D |
|----------------------------------|------|----------|----------|----------|----------|----------|----------|-----|----------|-----|-----|-----|----------|-----|----------|----------|----------|----------|----------|
| Components for re-use | kg | 2,93E-06 | 0,00E+00 | 0,00E+00 | 2,93E-06 | 0,00E+00 | 0,00E+00 | MND | 0,00E+00 | MND | MND | MND | 0,00E+00 | MND | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| Materials for recycling | kg | 1,78E-02 | 0,00E+00 | 1,00E-01 | 1,18E-01 | 0,00E+00 | 1,70E-02 | MND | 0,00E+00 | MND | MND | MND | 0,00E+00 | MND | 0,00E+00 | 0,00E+00 | 7,83E-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 | MND | 0,00E+00 | MND | MND | MND | 0,00E+00 | MND | 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 | 2,02E+00 | MND | 0,00E+00 | MND | MND | MND | 0,00E+00 | MND | 0,00E+00 | 0,00E+00 | 1,71E+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 | 9,10E-01 | MND | 0,00E+00 | MND | MND | MND | 0,00E+00 | MND | 0,00E+00 | 0,00E+00 | 2,60E-01 | 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 | 1,11E+00 | MND | 0,00E+00 | MND | MND | MND | 0,00E+00 | MND | 0,00E+00 | 0,00E+00 | 1,45E+00 | 0,00E+00 | 0,00E+00 |

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

| Impact category | Unit | A1 | A2 | А3 | A1-A3 | A4 | A5 | B1 | B2 | В3 | B4 | B5 | В6 | В7 | C1 | C2 | C3 | C4 | D |
|----------------------|-----------------------|----------|----------|----------|----------|----------|----------|-----|----------|-----|-----|-----|----------|-----|----------|----------|----------|----------|-----------|
| Global Warming Pot. | kg CO₂e | 3,74E+00 | 1,89E-01 | 2,70E-02 | 3,96E+00 | 9,77E-02 | 9,43E-03 | MND | 3,70E-04 | MND | MND | MND | 2,03E-03 | MND | 3,70E-04 | 9,30E-03 | 1,48E-01 | 9,00E-04 | -1,10E+00 |
| Ozone depletion Pot. | kg CFC-11e | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | MND | MND | MND | MND | MND | MND | MND | MND | MND | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| Acidification | kg SO₂e | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | MND | MND | MND | MND | MND | MND | MND | MND | MND | 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 | MND | MND | MND | MND | MND | MND | MND | MND | MND | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| POCP ("smog") | kg C₂H₄e | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | MND | MND | MND | MND | MND | MND | MND | MND | MND | 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 | MND | MND | MND | MND | MND | MND | MND | MND | MND | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| ADP-fossil | MJ | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | MND | MND | MND | MND | MND | MND | MND | MND | MND | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |



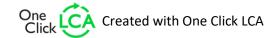




ENVIRONMENTAL IMPACTS – GWP-GHG

| Impact category | Unit | A1 | A2 | А3 | A1-A3 | A4 | A5 | B1 | B2 | В3 | B4 | B5 | В6 | В7 | C1 | C2 | С3 | C4 | D |
|-----------------------|---------|----------|----------|----------|----------|----------|----------|-----|----------|-----|-----|-----|----------|-----|----------|----------|----------|----------|-----------|
| GWP-GHG ⁹⁾ | kg CO₂e | 3,81E+00 | 1,90E-01 | 2,68E-02 | 4,03E+00 | 9,84E-02 | 9,30E-03 | MND | 3,68E-04 | MND | MND | MND | 2,02E-03 | MND | 3,68E-04 | 9,36E-03 | 1,48E-01 | 9,08E-04 | -1,10E+00 |

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.







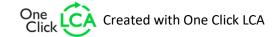
APPENDIX 1. ADDITIONAL ENVIRONMENTAL INFORMATION

CLIMATE IMPACT VARIATION IN EKO-SRB1 SERIES (MODULES A1-A3)

The table below presents the total climate impact results for modules A1-A3 (Cradle-to-gate). Variation in impact is due to differences in material composition and size. GWP-TOTAL, GWP-FOSSILS, and GWP-GHG each show an approximate 16% difference between their highest and lowest values, measured per kilogram of fire damper.

RESULTS GWP-TOTAL FOR ALL DIMENSIONS

| GTIN | Dimension | GWP-Total (A1-A3) [kg CO2-eq/kg] | Article weight [kg/piece] | GWP-Total (A1-A3) [kg CO2-eq per 1 piece] |
|----------------|-----------|-------------------------------------|---------------------------|--|
| 07350139874373 | 100 | 4,07 | 2,9 | 11,8 |
| 07350139874380 | 125 | 3,99 | 3,2 | 12,8 |
| 07350139874397 | 160 | 3,93 | 3,5 | 13,8 |
| 07350139874403 | 200 | 3,86 | 3,9 | 15,1 |
| 07350139874410 | 250 | 3,79 | 4,4 | 16,7 |
| 07350139874427 | 315 | 3,72 | 5,4 | 20,1 |
| 07350139874434 | 400 | 3,62 | 6,8 | 24,6 |
| 07350139874441 | 500 | 3,45 | 10,0 | 34,5 |
| 07350139874458 | 630 | 3,39 | 12,8 | 43,4 |







RESULTS GWP-FOSSIL FOR ALL DIMENSIONS

| GTIN | Dimension | GWP-Fossil (A1-A3) [kg CO2-eq/kg] | Article weight [kg/piece] | GWP-Fossil (A1-A3) [kg CO2-eq per 1 piece] |
|----------------|-----------|--------------------------------------|---------------------------|---|
| 07350139874373 | 100 | 4,11 | 2,9 | 11,9 |
| 07350139874380 | 125 | 4,03 | 3,2 | 12,9 |
| 07350139874397 | 160 | 3,97 | 3,5 | 13,9 |
| 07350139874403 | 200 | 3,90 | 3,9 | 15,2 |
| 07350139874410 | 250 | 3,83 | 4,4 | 16,9 |
| 07350139874427 | 315 | 3,77 | 5,4 | 20,4 |
| 07350139874434 | 400 | 3,66 | 6,8 | 24,9 |
| 07350139874441 | 500 | 3,49 | 10,0 | 34,9 |
| 07350139874458 | 630 | 3,44 | 12,8 | 44,0 |

RESULTS GWP-GHG FOR ALL DIMENSIONS

| GTIN | Dimension | GWP-GHG (A1-A3) [kg CO2-eq/kg] | Article weight [kg/piece] | GWP-GHG (A1-A3) [kg CO2-eq per 1 piece] |
|----------------|-----------|-----------------------------------|---------------------------|--|
| 07350139874373 | 100 | 4,11 | 2,9 | 11,9 |
| 07350139874380 | 125 | 4,03 | 3,2 | 12,9 |
| 07350139874397 | 160 | 3,97 | 3,5 | 13,9 |
| 07350139874403 | 200 | 3,91 | 3,9 | 15,2 |
| 07350139874410 | 250 | 3,83 | 4,4 | 16,9 |
| 07350139874427 | 315 | 3,77 | 5,4 | 20,4 |
| 07350139874434 | 400 | 3,66 | 6,8 | 24,9 |
| 07350139874441 | 500 | 3,49 | 10,0 | 34,9 |
| 07350139874458 | 630 | 3,44 | 12,8 | 44,0 |





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.

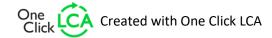
I confirm that I have sufficient knowledge and experience of construction products, this specific product category, the construction industry, relevant standards, and the geographical area of the EPD to carry out this verification.

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.

HaiHa Nguyen, as an authorized verifier acting for EPD Hub Limited 07.08.2025







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