ENVIRONMENTAL PRODUCT DECLARATION

IN ACCORDANCE WITH EN 15804+A2 & ISO 14025

20573 XXX0
SUPERLOOP SLIM IN 90 SBL
Delta Light nv

EPD HUB, HUB- 3654
Publishing date 18 July 2025, last updated on 18 July 2025, valid until 17 July 2030.

Life Cycle Assessment study has been performed in accordance with the requirements of EN 15804, EPD Hub PCR version 1.1 (5 Dec 2023) and JRC characterization factors EF 3.1.

Created with One Click LCA

DELTALIGHT

GENERAL INFORMATION

MANUFACTURER

Manufacturer	Delta Light nv
Address	Muizelstraat 2, 8560 Wevelgem, Belgium
Contact details	sustainability@deltalight.com
Website	www.deltalight.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 1.1, 5 Dec 2023 EN 50693 for electronic and electrical products and systems
Sector	Electrical product
Category of EPD	Third party verified EPD
Parent EPD number	-
Scope of the EPD	Cradle to gate with options, A4-A5, B6, and modules C1-C4, D
EPD author	Tim Blomme
EPD verification	Independent verification of this EPD and data, according to ISO 14025: ☐ Internal verification ☑ External verification
EPD verifier	Magaly González Vázquez, as an authorized verifier acting for EPD Hub Limited

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	SUPERLOOP SLIM IN 90 SBL
Additional labels	-
Product reference	20573 XXX0
Place(s) of raw material origin	Asia, EU
Place of production	Delta Light N.V., Muizelstraat 2, 8560 Belgium
Place(s) of installation and use	Worldwide
Period for data	FY2024
Averaging in EPD	No averaging
Variation in GWP-fossil for A1-A3 (%)	-
GTIN (Global Trade Item Number)	-
NOBB (Norwegian Building Product Database)	-

ENVIRONMENTAL DATA SUMMARY

Declared unit	1 unit of luminaire
Declared unit mass	2,0217 kg
GWP-fossil, A1-A3 ($kgCO_2e$)	5,61E+01
GWP-total, A1-A3 ($kgCO_2e$)	5,37E+01
Secondary material, inputs (%)	8,23
Secondary material, outputs (%)	71,9
Total energy use, A1-A3 (kWh)	185
Net freshwater use, A1-A3 (m^3)	0,24

PRODUCT AND MANUFACTURER

ABOUT THE MANUFACTURER

About Delta Light: Belgian and family-run since 1989, Delta Light provides premium lighting solutions for architecture. Quality products, designed for comfort and developed to last, that stand for simplicity and consistency but also show unexpected detail, from a visible screw to an ingenious touch. Because in everything Delta Light does, at project start or follow-up, we always seek to add a little extra care — and work with our partners, to guarantee we can bring their visions to completion.

PRODUCT DESCRIPTION

Superloop is a comprehensive range of slender circular and square shapes that offer a variety of lighting options. The collection features perfect circles of light, as well as circular and square low-voltage solutions for track lighting. This allows general and accent lighting to be seamlessly combined within a single family. Superloop gives you the flexibility to tailor your lighting to different needs. If you're looking for a decorative touch, position the light-emitting circle horizontally. For a bold, eye-catching statement, hang the light circle vertically.

Specifications about the representative product: architectural suspended ceiling circular luminaire, IP20 classification, class III (excl. power supply). Luminaire power up to 45W with LEDflex. Diameter is 925mm, height is 29mm and width is 19mm. Materials used are aluminium for the circular extruded profile. PMMA is used for the cover. Stainless steel is used for fastening materials.

Further information can be found at www.deltalight.com

PRODUCT RAW MATERIAL MAIN COMPOSITION

Raw material category	Amount, mass %	Material origin
Metals	85	Asia
Minerals	0	-
Fossil materials	6	Asia, EU
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	0,736

FUNCTIONAL UNIT AND SERVICE LIFE

Declared unit	1 unit of luminaire
Mass per declared unit	2,0217 kg
Functional unit	2285 lumen during a reference lifetime of 54 000 hours
Reference service life	19 years when the luminaire is operated for 8 hours a day

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	x	MND	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

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 product is made of metals, plastics and electronic components. The component manufacturing happens outside of Delta Light with subcontractors (aluminium production, moulding, pcb production,...) and are then transported to Delta Light N.V. where they are assembled together. The finished product is packaged in packaging cardboard before being sent to the installation site.

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 distance is defined according to the PCR. Average distance of transportation from production plant to building site is assumed as average 1340km, 492km, 179km for respectively boat, road and air transport. Vehicle capacity utilization 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. Empty returns are not taken into account as it is assumed that return trip is used by the transportation company to serve the needs of other clients. Transportation does not cause losses as products 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 wood pallets and cardboard. The impacts of energy consumption and the used ancillary materials during installation are considered negligible

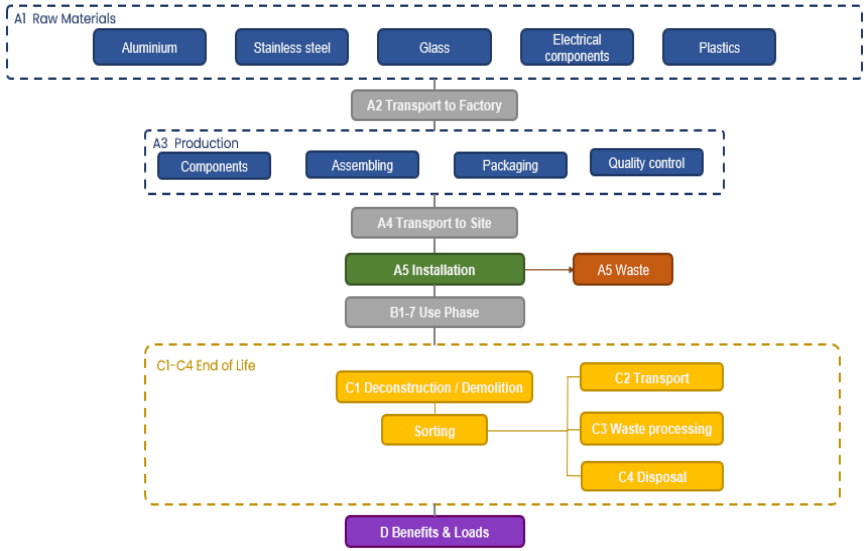
PRODUCT USE AND MAINTENANCE (B1-B7)

During the use phase, the product consumes electricity from regional (EU, North America, Asia and rest of the world) electricity grid mix (B6). Impacts due to electricity production include direct emissions to air, transformation and transmission losses. The reference service life is based on the LM80 report of the LED which is 54000hours. When the luminaire is operated 8 hours a day, this will result in an RSL of approximately 19 years. Air, soil, and water impacts during the use phase have not been studied. The product is assumed to undergo replacement of selected components in intervals of time (19 years when the luminaire is operated for 8 hours a day) based on the lifespan of parts and components. This is to ensure that the product is fully functional throughout its lifetime. This is why B1-B5 is excluded. B7 is not applicable. Air, soil, and water impacts during the use phase have not been studied.

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 center. Transportation distance to treatment is assumed as 50 km 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. Due to the material and energy recovery potential of parts in the lighting system, the end-of-life product is converted into recycled raw materials, while the energy recovered from incineration displaces electricity and heat production (D). The wooden pallet and other plastic packaging used during transportation is also incinerated for energy recovery and/or recycled. The benefits and loads of incineration and recycling are included in Module D. For aluminium 70% recovery rate and 30% disposal rate. For copper 60% disposal rate and 40% disposal rate. Other plastics 50% energy recovery rate and 50% disposal rate. For glass 60% recovery rate and 40% disposal rate. Packaging waste is not included in the End of Life stages (C3–C4). All impacts related to packaging disposal are instead accounted for in stage A5 (installation)

MANUFACTURING PROCESS



All estimations and assumptions regarding the cut off criteria and the allocation are declared in the part “Cut-off Criteria except the estimations/assumptions below:

- Module A2, A4 & C2: Vehicle capacity utilization volume factor is assumed to be 1 which means full load. It may vary but as the role of transportation emission in total results is small, the variety in load is assumed to be negligible. Empty returns are not considered as it is assumed that return trip is used by transportation companies to serve the needs of other clients.
- Module A4: Transportation does not cause losses as products are packaged properly. Also, volume capacity utilisation factor is assumed to be 1 for the nested packaged products. Additionally, transportation distances are based on a sales volume-based weighted average and a lorry is the assumed vehicle type used.
- Module B4 & B6: The product is assumed to undergo replacement of selected components in intervals of time (19 years when the luminaire is operated for 8 hours a day) based on the lifespan of parts and components. This is to ensure that the product is fully functional throughout its lifetime.
- Module C2: Transportation distance to e-waste handling facility is estimated as 50 km and the transportation method is assumed as lorry.
- Module C3, C4, D: The product undergoes dismantling, and the parts are sorted into metals, plastics, paint and electronics. The waste treatment percentages based on EN 50693 are assumed to be applicable. Module C3 accounts for energy and resource inputs for sorting and treating these waste streams for recycling and incineration with energy recovery. Ash from recycling processes is negligible. The recycled end-of-life materials are assumed to serve as secondary raw materials in manufacturing, while incinerated materials displace the need for electricity and heat production.

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.

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/AC2021 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	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 (%)	- %

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

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 v3.10.1 and One Click LCA databases as sources of environmental data. Allocation used in Ecoinvent 3.10.1 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

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	5,05E+01	8,06E-01	2,38E+00	5,37E+01	8,71E-01	5,22E+00	MND	MND	MND	MND	MND	1,06E+03	MND	0,00E+00	1,09E-02	4,29E-01	1,88E-02	-2,59E+01
GWP – fossil	kg CO_2e	5,03E+01	8,06E-01	4,99E+00	5,61E+01	8,71E-01	6,72E-02	MND	MND	MND	MND	MND	1,06E+03	MND	0,00E+00	1,09E-02	4,30E-01	1,88E-02	-2,57E+01
GWP – biogenic	kg CO_2e	1,85E-01	7,87E-05	-2,67E+00	-2,49E+00	1,07E-04	5,16E+00	MND	MND	MND	MND	MND	1,69E+00	MND	0,00E+00	2,47E-06	-1,24E-03	-4,02E-05	-2,20E-01
GWP – LULUC	kg CO_2e	3,60E-02	4,06E-04	6,22E-02	9,86E-02	1,81E-04	3,69E-05	MND	MND	MND	MND	MND	2,54E+00	MND	0,00E+00	4,87E-06	1,81E-04	1,79E-05	-9,65E-03
Ozone depletion pot.	kg CFC_{-11}e	3,73E-07	1,17E-08	1,06E-07	4,91E-07	1,35E-08	6,79E-10	MND	MND	MND	MND	MND	1,30E-05	MND	0,00E+00	1,61E-10	1,24E-09	2,49E-10	-1,05E-07
Acidification potential	mol H^+e	4,76E-01	1,52E-02	1,81E-02	5,10E-01	4,58E-03	2,72E-04	MND	MND	MND	MND	MND	5,73E+00	MND	0,00E+00	3,71E-05	1,09E-03	7,82E-05	-2,50E-01
EP-freshwater[2)]	kg Pe	2,93E-02	4,04E-05	2,18E-03	3,15E-02	2,89E-05	1,50E-05	MND	MND	MND	MND	MND	7,27E-01	MND	0,00E+00	8,47E-07	7,18E-05	2,03E-06	-1,47E-02
EP-marine	kg Ne	6,25E-02	3,88E-03	7,09E-03	7,35E-02	1,52E-03	4,43E-04	MND	MND	MND	MND	MND	9,92E-01	MND	0,00E+00	1,22E-05	1,79E-04	1,74E-04	-3,40E-02
EP-terrestrial	mol Ne	6,46E-01	4,30E-02	4,38E-02	7,33E-01	1,66E-02	8,61E-04	MND	MND	MND	MND	MND	9,47E+00	MND	0,00E+00	1,33E-04	1,93E-03	2,97E-04	-3,42E-01
POCP ("smog")[3)]	kg NMVOCe	2,03E-01	1,22E-02	1,59E-02	2,31E-01	5,52E-03	3,30E-04	MND	MND	MND	MND	MND	2,95E+00	MND	0,00E+00	5,47E-05	5,91E-04	9,52E-05	-1,04E-01
ADP-minerals & metals[4)]	kg Sbe	1,52E-03	1,38E-06	1,70E-05	1,54E-03	8,62E-07	4,33E-07	MND	MND	MND	MND	MND	1,05E-02	MND	0,00E+00	3,04E-08	6,28E-06	3,51E-08	-2,08E-05
ADP-fossil resources	MJ	5,42E+02	1,06E+01	8,00E+01	6,32E+02	1,19E+01	6,14E-01	MND	MND	MND	MND	MND	1,95E+04	MND	0,00E+00	1,58E-01	1,63E+00	2,29E-01	-2,60E+02
Water use[5)]	m^3e depr.	8,49E+00	3,97E-02	1,37E+00	9,90E+00	3,00E-02	1,68E-02	MND	MND	MND	MND	MND	4,81E+02	MND	0,00E+00	7,80E-04	4,65E-02	5,19E-03	-2,97E+00

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

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	2,92E-06	4,68E-08	2,42E-07	3,21E-06	3,03E-08	3,65E-09	MND	MND	MND	MND	MND	3,60E-05	MND	0,00E+00	1,09E-09	1,91E-08	1,46E-09	-1,37E-06
Ionizing radiation[6)]	kBq U235e	2,93E+00	6,76E-03	6,78E-01	3,61E+00	5,62E-03	4,02E-03	MND	MND	MND	MND	MND	4,44E+02	MND	0,00E+00	1,38E-04	7,78E-03	4,75E-04	-1,40E+00
Ecotoxicity (freshwater)	CTUe	2,80E+02	1,10E+00	1,74E+01	2,98E+02	9,01E-01	2,21E+00	MND	MND	MND	MND	MND	3,36E+03	MND	0,00E+00	2,23E-02	1,37E+00	8,66E+01	-6,13E+01
Human toxicity, cancer	CTUh	2,77E-08	1,56E-10	1,80E-09	2,96E-08	8,67E-11	4,87E-11	MND	MND	MND	MND	MND	2,72E-07	MND	0,00E+00	1,80E-12	1,04E-10	1,00E-11	-8,05E-09
Human tox. non-cancer	CTUh	9,88E-07	4,49E-09	4,91E-08	1,04E-06	8,34E-09	2,60E-09	MND	MND	MND	MND	MND	1,45E-05	MND	0,00E+00	1,02E-10	6,31E-09	2,13E-09	-1,76E-07
SQP[7)]	-	1,29E+02	5,22E+00	1,40E+02	2,75E+02	4,15E+00	4,53E-01	MND	MND	MND	MND	MND	4,13E+03	MND	0,00E+00	1,59E-01	1,61E+00	3,67E-01	-3,17E+02

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	2,78E+01	1,10E-01	1,08E+01	3,87E+01	8,26E-02	-2,95E+01	MND	MND	MND	MND	MND	4,52E+03	MND	0,00E+00	2,16E-03	2,31E-01	6,88E-03	-3,51E+01
Renew. PER as material	MJ	0,00E+00	0,00E+00	2,36E+01	2,36E+01	0,00E+00	-2,36E+01	MND	MND	MND	MND	MND	0,00E+00	MND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	-2,06E+01
Total use of renew. PER	MJ	2,78E+01	1,10E-01	3,44E+01	6,23E+01	8,26E-02	-5,31E+01	MND	MND	MND	MND	MND	4,52E+03	MND	0,00E+00	2,16E-03	2,31E-01	6,88E-03	-5,57E+01
Non-re. PER as energy	MJ	5,37E+02	1,06E+01	8,02E+01	6,28E+02	1,19E+01	6,13E-01	MND	MND	MND	MND	MND	1,95E+04	MND	0,00E+00	1,58E-01	-8,42E-01	-2,24E+00	-2,60E+02
Non-re. PER as material	MJ	4,02E+00	0,00E+00	1,92E-01	4,22E+00	0,00E+00	-1,92E-01	MND	MND	MND	MND	MND	0,00E+00	MND	0,00E+00	0,00E+00	-2,01E+00	-2,01E+00	-1,00E-01
Total use of non-re. PER	MJ	5,41E+02	1,06E+01	8,04E+01	6,32E+02	1,19E+01	4,22E-01	MND	MND	MND	MND	MND	1,95E+04	MND	0,00E+00	1,58E-01	-2,85E+00	-4,25E+00	-2,61E+02
Secondary materials	kg	1,66E-01	4,82E-03	1,40E+00	1,57E+00	2,50E-03	1,01E-03	MND	MND	MND	MND	MND	3,11E+00	MND	0,00E+00	6,72E-05	1,49E-03	9,04E-05	1,27E+00
Renew. secondary fuels	MJ	6,17E-03	3,16E-05	2,03E-01	2,09E-01	2,34E-05	5,71E-06	MND	MND	MND	MND	MND	2,29E-02	MND	0,00E+00	8,54E-07	4,82E-05	1,29E-06	-4,92E-04
Non-ren. secondary fuels	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	MND	MND	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	m^3	2,01E-01	1,10E-03	3,67E-02	2,39E-01	9,34E-04	-3,55E-04	MND	MND	MND	MND	MND	1,46E+01	MND	0,00E+00	2,34E-05	1,16E-03	-2,12E-03	-6,12E-02

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	9,46E+00	1,58E-02	2,09E-01	9,69E+00	9,94E-03	1,04E-02	MND	MND	MND	MND	MND	8,06E+01	MND	0,00E+00	2,68E-04	2,36E-02	1,62E-03	-4,99E+00
Non-hazardous waste	kg	1,41E+02	2,53E-01	1,74E+01	1,59E+02	1,87E-01	1,19E+00	MND	MND	MND	MND	MND	3,55E+03	MND	0,00E+00	4,95E-03	6,49E-01	3,02E+00	-6,40E+01
Radioactive waste	kg	7,10E-04	1,65E-06	1,79E-04	8,91E-04	1,37E-06	1,02E-06	MND	MND	MND	MND	MND	1,13E-01	MND	0,00E+00	3,37E-08	1,90E-06	1,16E-07	-3,37E-04

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	0,00E+00	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	0,00E+00	0,00E+00	0,00E+00	1,54E+00	MND	MND	MND	MND	MND	0,00E+00	MND	0,00E+00	0,00E+00	1,39E+00	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	MND	MND	MND	MND	0,00E+00	MND	0,00E+00	0,00E+00	6,81E-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	7,30E-01	MND	MND	MND	MND	MND	0,00E+00	MND	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	3,00E-01	MND	MND	MND	MND	MND	0,00E+00	MND	0,00E+00	0,00E+00	2,30E-01	0,00E+00	0,00E+00
Exported energy –	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	4,30E-01	MND	MND	MND	MND	MND	0,00E+00	MND	0,00E+00	0,00E+00	1,30E+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	5,02E+01	8,02E-01	5,24E+00	5,62E+01	8,66E-01	2,57E-01	MND	MND	MND	MND	MND	1,06E+03	MND	0,00E+00	1,08E-02	4,31E-01	1,85E-02	-2,55E+01
Ozone depletion Pot.	kg CFC_{-11}e	3,57E-07	9,31E-09	1,01E-07	4,68E-07	1,07E-08	5,56E-10	MND	MND	MND	MND	MND	1,10E-05	MND	0,00E+00	1,28E-10	1,04E-09	2,00E-10	-9,61E-08
Acidification	kg SO_2e	4,08E-01	1,21E-02	1,32E-02	4,33E-01	3,50E-03	2,08E-04	MND	MND	MND	MND	MND	4,83E+00	MND	0,00E+00	2,83E-05	9,13E-04	5,79E-05	-2,14E-01
Eutrophication	kg PO_4^3e	4,60E-02	1,44E-03	7,04E-03	5,45E-02	6,06E-04	3,14E-04	MND	MND	MND	MND	MND	6,02E-01	MND	0,00E+00	6,91E-06	1,11E-04	4,34E-05	-1,67E-02
POCP (“smog”)	kg C_2H_4e	2,66E-02	6,34E-04	1,28E-03	2,85E-02	2,41E-04	6,18E-05	MND	MND	MND	MND	MND	2,65E-01	MND	0,00E+00	2,53E-06	5,33E-05	5,29E-06	-1,32E-02
ADP-elements	kg Sbe	1,51E-03	1,35E-06	1,67E-05	1,53E-03	8,39E-07	4,25E-07	MND	MND	MND	MND	MND	1,04E-02	MND	0,00E+00	2,96E-08	6,25E-06	3,41E-08	-1,80E-05
ADP-fossil	MJ	4,95E+02	1,05E+01	6,76E+01	5,73E+02	1,18E+01	5,44E-01	MND	MND	MND	MND	MND	1,19E+04	MND	0,00E+00	1,56E-01	1,51E+00	2,22E-01	-2,38E+02

ENVIRONMENTAL IMPACTS – 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	5,03E+01	8,06E-01	5,05E+00	5,62E+01	8,71E-01	6,72E-02	MND	MND	MND	MND	MND	1,06E+03	MND	0,00E+00	1,09E-02	4,30E-01	1,89E-02	-2,57E+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

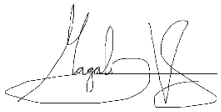
I hereby confirm that, following detailed examination, I have not established any relevant deviations by the studied Environmental Product Declaration (EPD), its LCA and project report, in terms of the data collected and used in the LCA calculations, the way the LCA-based calculations have been carried 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.

Magaly González Vázquez, as an authorized verifier acting for EPD Hub Limited
18.07.2025



VERIFIED ISO 14025

PEP EXTRAPOLATION COEFFICIENTS OF TOTAL SUPERLOOP (EXL. MDL)

Extrapolation rules have been calculated according to PSR-0014-ED2-EN-2023 07 13.
The extrapolation coefficients are calculated at product level. The functional unit coefficient is also available.

$$Extrapolation\ coefficient\ at\ the\ product\ level\ x\ \left(\frac{Lighting\ output\ of\ reference\ product\ (lumen)}{Lighting\ output\ of\ product\ concerned\ (lumen)}\right)$$

Table with information to calculate the extrapolation coefficients

Mass code	Description	product weight (kg)	packaging weight (kg)	Total weight (kg)	Class	IP	Luminaire lumen	Luminaire power (W)
20573 XXX0	SUPERLOOP SLIM IN 90 SBL	2,00	1,85	3,87	III	IP20	2285	45
321 107 XX	SUPERLOOP HC 70 SBL	2,31	0,95	3,26	III	IP20	2325	34
321 109 XX	SUPERLOOP HC 90 SBL	3,10	1,42	4,52	III	IP20	3101	45
321 112 XX	SUPERLOOP HC 120 SBL	3,85	2,11	5,96	III	IP20	4005	58
321 117 XX	SUPERLOOP HC 170 SBL	5,43	3,8	9,23	III	IP20	5685	82
20549 XXX0	SUPERLOOP HC 200 SBL	6,00	3,40	9,4	III	IP20	4900	104
20550 XXX0	SUPERLOOP HC 250 SBL	8,10	1,13	9,23	III	IP20	6371	135
20551 XXX0	SUPERLOOP HC 300 SBL	9,70	3,88	13,6	III	IP20	7351	155
20552 XXX0	SUPERLOOP HC 350 SBL	11,3	4,52	15,8	III	IP20	8821	186
20553 XXX0	SUPERLOOP HC 400 SBL	12,9	5,16	18,1	III	IP20	9801	207
20554 XXX0	SUPERLOOP HC 500 SBL	16,2	6,48	22,7	III	IP20	12251	259
321 507 XX	SUPERLOOP VC 70 SBL	2,51	0,95	3,46	III	IP20	2325	34
321 509 XX	SUPERLOOP VC 90 SBL	3,21	1,42	4,63	III	IP20	3101	45
321 512 XX	SUPERLOOP VC 120 SBL	3,80	2,20	6,00	III	IP20	4005	58
321 407 XX	SUPERLOOP VR 70 SBL	2,68	0,95	3,63	III	IP20	2325	34
321 409 XX	SUPERLOOP VR 90 SBL	3,40	1,42	4,82	III	IP20	3101	45
321 412 XX	SUPERLOOP VR 120 SBL	4,24	2,11	6,35	III	IP20	4005	58
20570 XXX0	SUPERLOOP HC SBL OVAL S	2,84	1,74	4,57	III	IP20	3054	43
20571 XXX0	SUPERLOOP HC SBL OVAL M	4,47	3,35	7,83	III	IP20	4113	57
20572 XXX0	SUPERLOOP SLIM IN 70 SBL	1,60	1,32	2,92	III	IP20	1713	34
20574 XXX0	SUPERLOOP SLIM IN 120 SBL	2,40	0,48	2,88	III	IP20	2951	58
20575 XXX0	SUPERLOOP SLIM IN 170 SBL	3,58	4,90	8,48	III	IP20	4188	82

20576 XXX0	SUPERLOOP SLIM OUT 70 SBL	1,61	1,32	2,93	III	IP20	1713	34
20577 XXX0	SUPERLOOP SLIM OUT 90 SBL	2,00	1,86	3,86	III	IP20	2285	45
20578 XXX0	SUPERLOOP SLIM OUT 120 SBL	2,63	2,80	5,43	III	IP20	2951	58
20579 XXX0	SUPERLOOP SLIM OUT 170 SBL	3,5	0,7	4,2	III	IP20	4188	82
20580 XXX0	SUPERLOOP SLIM DOWN 70 SBL	1,58	1,321	2,901	III	IP20	1713	34
20582 XXX0	SUPERLOOP SLIM DOWN 120 SBL	2,499	2,801	5,3	III	IP20	2951	58

Applicable extrapolation coefficients:

		A1-A3	A4	A5	B6	C1-C4	D
Mass code	**Extrapol. FU**	**Fabrication stage**	**Distribution stage**	**Installation stage**	**Use stage**	**EOL stage**	**Benefits beyond the system**
20573 XXX0	1,000	1,000	1,000	1,000	1,000	1,000	1,000
321 107 XX	0,983	1,143	0,842	0,514	0,756	0,842	1,143
321 109 XX	0,737	1,533	1,167	0,768	1,000	1,167	1,533
321 112 XX	0,571	1,904	1,539	1,141	1,289	1,539	1,904
321 117 XX	0,402	2,686	2,384	2,054	1,822	2,384	2,686
20549 XXX0	0,466	2,968	2,428	1,838	2,311	2,428	2,968
20550 XXX0	0,359	4,007	2,384	0,611	3,000	2,384	4,007
20551 XXX0	0,311	4,798	3,508	2,097	3,444	3,508	4,798
20552 XXX0	0,259	5,589	4,086	2,443	4,133	4,086	5,589
20553 XXX0	0,233	6,381	4,665	2,789	4,600	4,665	6,381
20554 XXX0	0,187	8,013	5,858	3,503	5,756	5,858	8,013
321 507 XX	0,983	1,242	0,894	0,514	0,756	0,894	1,242
321 509 XX	0,737	1,588	1,196	0,768	1,000	1,196	1,588
321 512 XX	0,571	1,880	1,550	1,189	1,289	1,550	1,880
321 407 XX	0,983	1,326	0,938	0,514	0,756	0,938	1,326
321 409 XX	0,737	1,682	1,245	0,768	1,000	1,245	1,682
321 412 XX	0,571	2,097	1,640	1,141	1,289	1,640	2,097
20570 XXX0	0,748	1,402	1,181	0,939	0,956	1,181	1,402
20571 XXX0	0,556	2,212	2,021	1,812	1,267	2,021	2,212
20572 XXX0	1,334	0,790	0,754	0,714	0,756	0,754	0,790
20574 XXX0	0,774	1,187	0,744	0,259	1,289	0,744	1,187
20575 XXX0	0,546	2,649	2,191	2,649	1,822	2,191	2,649

20576 XXX0	1,334	0,796	0,757	0,714	0,756	0,757	0,796
20577 XXX0	1,000	1,005	0,996	1,005	1,000	0,996	1,005
20578 XXX0	0,774	1,514	1,403	1,514	1,289	1,403	1,514
20579 XXX0	0,546	1,731	1,085	0,378	1,822	1,085	1,731
20580 XXX0	1,334	0,782	0,749	0,714	0,756	0,749	0,782
20582 XXX0	0,774	1,514	1,369	1,514	1,289	1,369	1,514

Explanation used coefficients from PSR-0014-ED2-EN-2023 07 13:

Fabrication stage (A1-A3) extrapolation coefficient:
Maximum value out of formulas described in 3.6.3 Extrapolation rules applied to fabrication stage (A1-A3)

Distribution stage (A4) extrapolation coefficient:
Value out of formula described in 3.6.4 Extrapolation rules applied to distribution stage (A4)

Installation stage (A5) extrapolation coefficient:
Value out of formula described in 3.6.5 Extrapolation rules applied to installation stage (A5)

Use stage (B1 – B7) extrapolation coefficient:
Maximum value out of formulas described in 3.6.6. Extrapolation rules applied to use stage (B1 to B7)
(B2 is not declared in our case, so the formula of B6 applies)

End of life stage (C1 to C4) extrapolation coefficient:
Value out of formula described in 3.6.7. Extrapolation rules applied to end-of-life stage (C1 to C4)

Benefits (D) extrapolation coefficient:
Maximum value out of formulas described in 3.6.8. Extrapolation rules applied to net benefits beyond the system boundaries stage (D) (optional)