



ENVIRONMENTAL PRODUCT DECLARATION

IN ACCORDANCE WITH EN 15804+A2 & ISO 14025

23274 XXX0

M26L - SPY 52 MDL

Delta Light nv



EPD HUB, HUB- 3653

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.



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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 c-PCR 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	M26L - SPY 52 MDL
Additional labels	-
Product reference	23274 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	0,349 kg
GWP-fossil, A1-A3 (kgCO ₂ e)	9,29E+00
GWP-total, A1-A3 (kgCO ₂ e)	9,07E+00
Secondary material, inputs (%)	8,54
Secondary material, outputs (%)	71,7
Total energy use, A1-A3 (kWh)	29,7
Net freshwater use, A1-A3 (m ³)	0,04

PRODUCT AND MANUFACTURER

ABOUT THE MANUFACTURER

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

With the magnetic profiles, Delta Light takes it to the next level in the profile section. These profiles offer the highest degree of freedom and flexibility, as all modules have a magnetic fixation. Splitline M20 and M52 allow for a neat, trimless installation, while Shiftline M26 can be used for projects where surface or suspended mounting is required. To create the optimal light setting, multiple light modules are available: spot modules with different beams and lumen packages going up to 2000lm for accent lighting, linear LED lines for general or wallwash lighting and pendant modules for an elegant finish of the room. All modules can be placed toolfree into the profile and repositioned afterwards thanks to their magnetic fixation. Simply click the module into the profile and both mechanical and electrical connection are ensured. As this family of profiles is powered by 48V, Smart 48 can be used for an easy 2-wire dimming/power solution, or even wireless. For individual control of luminaires, one can opt for a DALI controlled system.

Specifications about the representative product: architectural 48 VDC track lighting, IP20 classification, class III (including convertor from CV to CC), adjustable 0° to 90° swiveling, 355° rotatable. Luminaire power up to 14W with LED COB. Diameter 52mm with length of body 120mm. A track adapter is used for connection to the track profile. Materials used are aluminium for the body, hinge and reflector. Polycarbonate is used for the lightpie and track

adapter, and stainless steel is used for connection parts. Used for M26 profile Further information can be found at www.deltalight.com

PRODUCT RAW MATERIAL MAIN COMPOSITION

Raw material category	Amount, mass %	Material origin
Metals	90	Asia
Minerals	0	-
Fossil materials	5	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	0,07

FUNCTIONAL UNIT AND SERVICE LIFE

Declared unit	1 unit of luminaire
Mass per declared unit	0,349 kg
Functional unit	939 lumen during a reference lifetime of 55 000 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

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, 592km, 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)

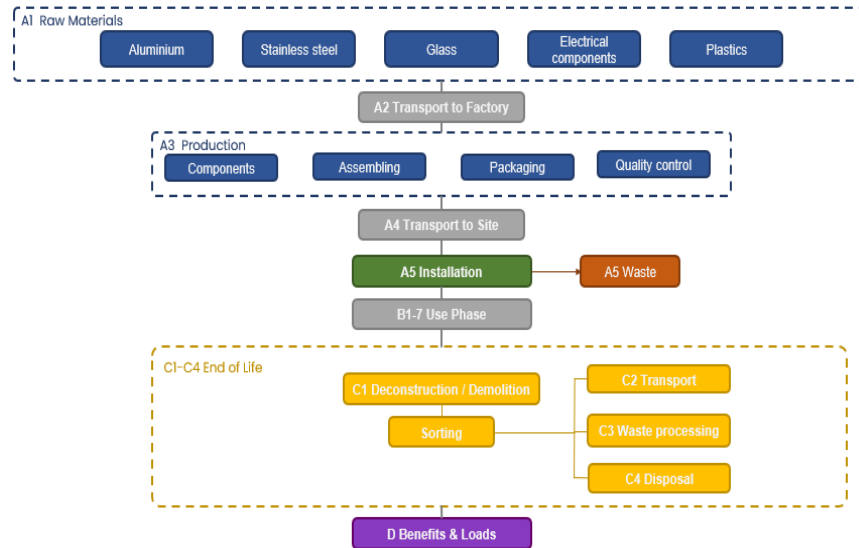
During the use phase, the product consumes electricity from regional (EU, North America, Asia and rest of the world) electricity grid mix (B6). Impacts due to electricity production include direct emissions to air, transformation and transmission losses. The reference service life is based on the LM80 report of the LED which is 55000hours. 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 ₂ e	8,53E+00	8,93E-02	4,53E-01	9,07E+00	1,20E-01	5,13E-01	MND	MND	MND	MND	MND	4,49E+02	MND	0,00E+00	1,84E-03	6,81E-02	3,11E-03	-4,62E+00
GWP – fossil	kg CO ₂ e	8,49E+00	8,92E-02	7,11E-01	9,29E+00	1,20E-01	6,55E-03	MND	MND	MND	MND	MND	4,47E+02	MND	0,00E+00	1,84E-03	6,84E-02	3,11E-03	-4,60E+00
GWP – biogenic	kg CO ₂ e	2,96E-02	1,34E-05	-2,64E-01	-2,35E-01	1,48E-05	5,07E-01	MND	MND	MND	MND	MND	6,29E-01	MND	0,00E+00	4,17E-07	-2,45E-04	-7,09E-06	-1,54E-02
GWP – LULUC	kg CO ₂ e	5,06E-03	4,61E-05	6,32E-03	1,14E-02	2,48E-05	3,58E-06	MND	MND	MND	MND	MND	9,85E-01	MND	0,00E+00	8,24E-07	3,16E-05	3,26E-06	-1,26E-03
Ozone depletion pot.	kg CFC-11e	4,84E-08	1,29E-09	1,48E-08	6,44E-08	1,86E-09	6,61E-11	MND	MND	MND	MND	MND	4,70E-06	MND	0,00E+00	2,72E-11	2,14E-10	4,44E-11	-1,77E-08
Acidification potential	mol H ⁺ e	8,03E-02	2,37E-03	2,31E-03	8,50E-02	6,30E-04	2,65E-05	MND	MND	MND	MND	MND	2,36E+00	MND	0,00E+00	6,28E-06	1,91E-04	1,39E-05	-4,51E-02
EP-freshwater ²⁾	kg Pe	4,63E-03	3,05E-06	2,97E-04	4,93E-03	3,97E-06	1,46E-06	MND	MND	MND	MND	MND	2,76E-01	MND	0,00E+00	1,43E-07	1,27E-05	3,68E-07	-2,53E-03
EP-marine	kg Ne	1,05E-02	5,94E-04	8,15E-04	1,19E-02	2,09E-04	4,21E-05	MND	MND	MND	MND	MND	4,21E-01	MND	0,00E+00	2,06E-06	2,97E-05	1,64E-05	-6,01E-03
EP-terrestrial	mol Ne	1,08E-01	6,59E-03	5,27E-03	1,20E-01	2,28E-03	8,41E-05	MND	MND	MND	MND	MND	4,09E+00	MND	0,00E+00	2,25E-05	3,26E-04	5,29E-05	-6,07E-02
POCP (“smog”) ³⁾	kg NMVOCe	3,35E-02	1,80E-03	2,06E-03	3,74E-02	7,58E-04	3,19E-05	MND	MND	MND	MND	MND	1,26E+00	MND	0,00E+00	9,26E-06	1,01E-04	1,69E-05	-1,84E-02
ADP-minerals & metals ⁴⁾	kg Sbe	1,41E-04	9,62E-08	2,39E-06	1,43E-04	1,18E-07	4,22E-08	MND	MND	MND	MND	MND	3,96E-03	MND	0,00E+00	5,14E-09	1,13E-06	6,33E-09	-3,48E-06
ADP-fossil resources	MJ	8,89E+01	1,11E+00	1,18E+01	1,02E+02	1,64E+00	5,96E-02	MND	MND	MND	MND	MND	7,65E+03	MND	0,00E+00	2,67E-02	2,84E-01	4,09E-02	-4,63E+01
Water use ⁵⁾	m ³ e depr.	1,34E+00	3,24E-03	1,77E-01	1,52E+00	4,12E-03	1,65E-03	MND	MND	MND	MND	MND	1,80E+02	MND	0,00E+00	1,32E-04	7,30E-03	9,47E-04	-4,74E-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

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	4,89E-07	3,03E-09	2,63E-08	5,18E-07	4,17E-09	3,55E-10	MND	MND	MND	MND	MND	1,69E-05	MND	0,00E+00	1,84E-10	3,39E-09	2,59E-10	-2,46E-07
Ionizing radiation ⁶⁾	kBq 11235a	4,61E-01	5,32E-04	1,08E-01	5,69E-01	7,72E-04	3,91E-04	MND	MND	MND	MND	MND	1,59E+02	MND	0,00E+00	2,33E-05	1,32E-03	8,59E-05	-2,38E-01
Ecotoxicity (freshwater)	CTUe	3,53E+01	8,70E-02	2,10E+00	3,75E+01	1,24E-01	2,10E-01	MND	MND	MND	MND	MND	1,37E+03	MND	0,00E+00	3,78E-03	2,13E-01	1,59E+01	-1,07E+01
Human toxicity, cancer	CTUh	4,36E-09	1,81E-11	2,11E-10	4,59E-09	1,19E-11	4,78E-12	MND	MND	MND	MND	MND	1,05E-07	MND	0,00E+00	3,04E-13	1,73E-11	1,77E-12	-1,42E-09
Human tox. non-cancer	CTUh	1,30E-07	3,31E-10	6,08E-09	1,36E-07	1,15E-09	2,52E-10	MND	MND	MND	MND	MND	5,64E-06	MND	0,00E+00	1,73E-11	1,08E-09	3,78E-10	-3,13E-08
SQP ⁷⁾	-	1,96E+01	1,74E-01	1,41E+01	3,39E+01	5,71E-01	4,39E-02	MND	MND	MND	MND	MND	1,58E+03	MND	0,00E+00	2,69E-02	2,89E-01	6,46E-02	-3,56E+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	3,78E+00	8,88E-03	1,75E+00	5,54E+00	1,14E-02	-2,88E+00	MND	MND	MND	MND	MND	1,64E+03	MND	0,00E+00	3,66E-04	4,06E-02	1,24E-03	-3,85E+00
Renew. PER as material	MJ	0,00E+00	0,00E+00	2,33E+00	2,33E+00	0,00E+00	-2,33E+00	MND	MND	MND	MND	MND	0,00E+00	MND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	-2,11E+00
Total use of renew. PER	MJ	3,78E+00	8,88E-03	4,09E+00	7,88E+00	1,14E-02	-5,21E+00	MND	MND	MND	MND	MND	1,64E+03	MND	0,00E+00	3,66E-04	4,06E-02	1,24E-03	-5,95E+00
Non-re. PER as energy	MJ	8,85E+01	1,11E+00	1,18E+01	1,01E+02	1,64E+00	5,96E-02	MND	MND	MND	MND	MND	7,65E+03	MND	0,00E+00	2,67E-02	-3,80E-03	-2,54E-01	-4,63E+01
Non-re. PER as material	MJ	2,93E-01	0,00E+00	1,89E-02	3,12E-01	0,00E+00	-1,89E-02	MND	MND	MND	MND	MND	0,00E+00	MND	0,00E+00	0,00E+00	-1,46E-01	-1,46E-01	-1,02E-02
Total use of non-re. PER	MJ	8,88E+01	1,11E+00	1,18E+01	1,02E+02	1,64E+00	4,07E-02	MND	MND	MND	MND	MND	7,65E+03	MND	0,00E+00	2,67E-02	-1,50E-01	-4,00E-01	-4,63E+01
Secondary materials	kg	2,98E-02	5,08E-04	1,39E-01	1,69E-01	3,44E-04	9,84E-05	MND	MND	MND	MND	MND	1,20E+00	MND	0,00E+00	1,14E-05	2,67E-04	1,62E-05	2,32E-01
Renew. secondary fuels	MJ	7,87E-04	1,54E-06	2,01E-02	2,09E-02	3,21E-06	5,56E-07	MND	MND	MND	MND	MND	8,49E-03	MND	0,00E+00	1,45E-07	8,28E-06	2,28E-07	-8,72E-05
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	3,04E-02	8,20E-05	5,04E-03	3,55E-02	1,28E-04	-3,23E-05	MND	MND	MND	MND	MND	5,38E+00	MND	0,00E+00	3,95E-06	1,87E-04	-3,72E-04	-9,50E-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	1,68E+00	1,46E-03	2,62E-02	1,71E+00	1,37E-03	1,03E-03	MND	MND	MND	MND	MND	3,62E+01	MND	0,00E+00	4,53E-05	3,98E-03	2,96E-04	-9,00E-01
Non-hazardous waste	kg	2,40E+01	2,07E-02	2,75E+00	2,68E+01	2,57E-02	1,13E-01	MND	MND	MND	MND	MND	1,34E+03	MND	0,00E+00	8,38E-04	1,11E-01	5,31E-01	-1,14E+01
Radioactive waste	kg	1,11E-04	1,30E-07	2,88E-05	1,40E-04	1,88E-07	9,95E-08	MND	MND	MND	MND	MND	4,01E-02	MND	0,00E+00	5,70E-09	3,24E-07	2,10E-08	-5,71E-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	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	1,50E-01	MND	MND	MND	MND	MND	0,00E+00	MND	0,00E+00	0,00E+00	2,38E-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	MND	MND	MND	MND	0,00E+00	MND	0,00E+00	0,00E+00	1,24E-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	7,10E-02	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	2,90E-02	MND	MND	MND	MND	MND	0,00E+00	MND	0,00E+00	0,00E+00	3,00E-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	4,20E-02	MND	MND	MND	MND	MND	0,00E+00	MND	0,00E+00	0,00E+00	1,68E-01	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 ₂ e	8,46E+00	8,88E-02	7,36E-01	9,29E+00	1,19E-01	2,45E-02	MND	MND	MND	MND	MND	4,46E+02	MND	0,00E+00	1,83E-03	6,85E-02	3,07E-03	-4,57E+00
Ozone depletion Pot.	kg CFC ₋₁₁ e	4,52E-08	1,02E-09	1,35E-08	5,97E-08	1,47E-09	5,41E-11	MND	MND	MND	MND	MND	3,99E-06	MND	0,00E+00	2,17E-11	1,79E-10	3,57E-11	-1,63E-08
Acidification	kg SO ₂ e	6,88E-02	1,89E-03	1,75E-03	7,25E-02	4,81E-04	2,02E-05	MND	MND	MND	MND	MND	1,98E+00	MND	0,00E+00	4,80E-06	1,60E-04	1,03E-05	-3,87E-02
Eutrophication	kg PO ₄ ³ e	6,40E-03	2,11E-04	7,79E-04	7,39E-03	8,33E-05	2,98E-05	MND	MND	MND	MND	MND	2,44E-01	MND	0,00E+00	1,17E-06	1,89E-05	7,27E-06	-2,89E-03
POCP (“smog”)	kg C ₂ H ₄ e	4,32E-03	9,46E-05	1,58E-04	4,57E-03	3,31E-05	5,89E-06	MND	MND	MND	MND	MND	1,09E-01	MND	0,00E+00	4,27E-07	9,33E-06	9,01E-07	-2,36E-03
ADP-elements	kg Sbe	1,40E-04	9,49E-08	2,35E-06	1,42E-04	1,15E-07	4,14E-08	MND	MND	MND	MND	MND	3,94E-03	MND	0,00E+00	5,01E-09	1,13E-06	6,14E-09	-3,01E-06
ADP-fossil	MJ	8,15E+01	1,10E+00	9,81E+00	9,24E+01	1,62E+00	5,29E-02	MND	MND	MND	MND	MND	4,94E+03	MND	0,00E+00	2,64E-02	2,63E-01	3,95E-02	-4,25E+01

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 ₂ e	8,50E+00	8,93E-02	7,18E-01	9,30E+00	1,20E-01	6,55E-03	MND	MND	MND	MND	MND	4,48E+02	MND	0,00E+00	1,84E-03	6,84E-02	3,11E-03	-4,60E+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.

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 compliance 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



ANNEX 1: PEP EXTRAPOLATION COEFFICIENTS OF TOTAL M – SPY FAMILY

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.

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

Table with information to calculate the extrapolation coefficients

Mass code	Description	product weight (kg)	packaging weight (kg)	Total weight (kg)	Class	IP	Luminaire lumen (lm)	Luminaire power (W)
421 612 811 XXX MDL	M - MICROSPY 39 C MDL	0,679	0,272	0,951	III	IP20	530	7
19888 XXX5	M26L/M35R - SPY 52 WALLWASH DIM5	0,332	0,158	0,49	III	IP20	514	10
19889 XXX0	M20/M26H - SPY 52 WALLWASH MDL	0,373	0,162	0,535	III	IP20	514	10
19890 XXX5	M20/M26H - SPY 52 WALLWASH DIM5	0,4	0,12	0,52	III	IP20	514	10
19892 XXX0	M26L/M35R - SPY 52 WALLWASH SOFT MDL	0,332	0,163	0,495	III	IP20	490	12
19893 XXX5	M26L/M35R - SPY 52 WALLWASH SOFT DIM5	0,3	0,12	0,42	III	IP20	490	12
19894 XXX0	M20/M26H - SPY 52 WALLWASH SOFT MDL	0,4	0,12	0,52	III	IP20	490	12
19895 XXX5	M20/M26H - SPY 52 WALLWASH SOFT DIM5	0,4	0,12	0,52	III	IP20	490	12
23210 XXX0	M26L/M35R - SPY 271 MDL	0,133	0,089	0,222	III	IP20	480	7
23211 XXX5	M26L/M35R - SPY 271 DIM5	0,132	0,09	0,222	III	IP20	480	7
23212 XXX0	M26L/M35R - SPY 272 MDL	0,21	0,091	0,301	III	IP20	480	7
23213 XXX5	M26L/M35R - SPY 272 DIM5	0,21	0,091	0,301	III	IP20	480	7
23215 XXX5	M26L/M35R - SPY 52 TW DIM5	0,364	0,159	0,523	III	IP20	695	10
23230 XXX0	M26L/M35R-SPY FOCUS LP MDL	0,515	0,151	0,666	III	IP20	417	10
23231 XXX5	M26L/M35R-SPY FOCUS LP DIM5	0,509	0,171	0,68	III	IP20	417	10
23232 XXX0	M26L/M35R-SPY FOCUS MP MDL	0,515	0,151	0,666	III	IP20	735	20
23233 XXX5	M26L/M35R-SPY FOCUS MP DIM5	0,509	0,171	0,68	III	IP20	735	20
23258 XXX0	M26L/M35R - SPY 391 MDL	0,239	0,156	0,395	III	IP20	888	10
23259 XXX5	M26L/M35R - SPY 391 DIM5	0,3	0,12	0,42	III	IP20	888	10
23260 XXX0	M26L/M35R - SPY 392 MDL	0,417	0,155	0,572	III	IP20	1766	20
23261 XXX5	M26L/M35R - SPY 392 DIM5	0,424	0,167	0,591	III	IP20	1766	20
23274 XXX0 (reference)	M26L/M35R - SPY 52 MDL	0,349	0,174	0,523	III	IP20	939	14
23275 XXX5	M26L/M35R - SPY 52 DIM5	0,366	0,155	0,521	III	IP20	939	14
23278 XXX0	M26L/M35R - SPY 66 MDL	0,51	0,159	0,669	III	IP20	2007	29
23279 XXX5	M26L/M35R - SPY 66 DIM5	0,518	0,161	0,679	III	IP20	2007	29
23280 XXX0	M26L/M35R - SPY 271 L MDL	0,3	0,12	0,42	III	IP20	288	7
23281 XXX5	M26L/M35R - SPY 271 L DIM5	0,3	0,12	0,42	III	IP20	288	7
23282 XXX0	M26L/M35R - SPY 272 L MDL	0,355	0,163	0,518	III	IP20	576	13
23283 XXX5	M26L/M35R - SPY 272 L DIM5	0,355	0,163	0,518	III	IP20	576	13

23284 XXX0	M26L/M35R - SPY 391 L MDL	0,342	0,167	0,509	III	IP20	737	10
23285 XXX5	M26L/M35R - SPY 391 L DIM5	0,342	0,167	0,509	III	IP20	737	10
23292 XXX5	M26L/M35R - SPY 66 TW DIM5	0,515	0,148	0,663	III	IP20	776	10
23293 XXX0	M26L/M35R - SPY 52 FOCUS MDL	0,478	0,161	0,639	III	IP20	968	14
23294 XXX5	M26L/M35R - SPY 52 FOCUS DIM5	0,478	0,161	0,639	III	IP20	968	14
23295 XXX0	M26L/M35R - SPY 52 FOCUS SOFT MDL	0,478	0,161	0,639	III	IP20	685	12
23296 XXX5	M26L/M35R - SPY 52 FOCUS SOFT DIM5	0,478	0,161	0,639	III	IP20	685	12
23297 XXX0	M26L/M35R - SPY 52 SOFT MDL	0,4	0,12	0,52	III	IP20	664	12
23298 XXX5	M26L/M35R - SPY 52 SOFT DIM5	0,4	0,12	0,52	III	IP20	664	12
23311 XXX0	M20/M26H - SPY 271 MDL	0,171	0,092	0,263	III	IP20	480	7
23312 XXX5	M20/M26H - SPY 271 DIM5	0,171	0,092	0,263	III	IP20	480	7
23313 XXX0	M20/M26H - SPY 272 MDL	0,255	0,157	0,412	III	IP20	960	13
23314 XXX5	M20/M26H - SPY 272 DIM5	0,255	0,157	0,412	III	IP20	960	13
23315 XXX0	M20/M26H - SPY 391 MDL	0,277	0,155	0,432	III	IP20	888	10
23316 XXX5	M20/M26H - SPY 391 DIM5	0,277	0,155	0,432	III	IP20	888	10
23317 XXX0	M20/M26H - SPY 392 MDL	0,468	0,148	0,616	III	IP20	1766	20
23318 XXX5	M20/M26H - SPY 392 DIM5	0,467	0,169	0,636	III	IP20	1766	20
23323 XXX0	M20/M26H - SPY 52 MDL	0,402	0,168	0,57	III	IP20	939	14
23324 XXX5	M20/M26H - SPY 52 DIM5	0,406	0,167	0,573	III	IP20	939	14
23327 XXX0	M20/M26H - SPY 66 MDL	0,561	0,177	0,738	III	IP20	2007	29
23328 XXX5	M20/M26H - SPY 66 DIM5	0,561	0,177	0,738	III	IP20	2007	29
23331 XXX5	M20/M26H - SPY 52 TW DIM5	0,405	0,167	0,572	III	IP20	695	10
23332 XXX0	M20/M26-SPY FOCUS MP MDL	0,567	0,161	0,728	III	IP20	735	20
23353 XXX5	M-MICROSPY 39 C DIM5	0,669	0,289	0,958	III	IP20	530	7
23360 XXX5	M20/M26H - SPY 66 TW DIM5	0,559	0,169	0,728	III	IP20	776	10
23373 XXX5	M20/M26-SPY FOCUS MP DIM5	0,567	0,161	0,728	III	IP20	735	20
23378 XXX0	M20/M26-SPY FOCUS LP MDL	0,56	0,164	0,724	III	IP20	419	10
23379 XXX5	M20/M26-SPY FOCUS LP DIM5	0,566	0,147	0,713	III	IP20	419	10
23385 XXX0	M20/M26H - SPY 271 L MDL	0,243	0,154	0,397	III	IP20	288	7
23386 XXX5	M20/M26H - SPY 271 L DIM5	0,243	0,154	0,397	III	IP20	288	7
23387 XXX0	M20/M26H - SPY 272 L MDL	0,5	0,15	0,65	III	IP20	576	13
23388 XXX5	M20/M26H - SPY 272 L DIM5	0,5	0,15	0,65	III	IP20	576	13
23389 XXX0	M20/M26H - SPY 391 L MDL	0,377	0,182	0,559	III	IP20	737	10
23390 XXX5	M20/M26H - SPY 391 L DIM5	0,377	0,182	0,559	III	IP20	737	10
23398 XXX0	M20/M26H - SPY 52 SOFT MDL	0,5	0,15	0,65	III	IP20	664	12
23399 XXX5	M20/M26H - SPY 52 SOFT DIM5	0,5	0,15	0,65	III	IP20	664	12
23411 XXX0	M20/M26H - SPY 52 FOCUS MDL	0,373	0,162	0,535	III	IP20	968	14
23412 XXX5	M20/M26H - SPY 52 FOCUS DIM5	0,373	0,162	0,535	III	IP20	968	14
23413 XXX0	M20/M26H - SPY 52 FOCUS SOFT MDL	0,373	0,162	0,535	III	IP20	685	12
23414 XXX5	M20/M26H - SPY 52 FOCUS SOFT DIM5	0,373	0,162	0,535	III	IP20	685	12
23415 XXX0	M20/M26H - SPY 39 FOCUS MDL	0,3	0,12	0,42	III	IP20	303	10
23416 XXX5	M20/M26H - SPY 39 FOCUS DIM5	0,3	0,12	0,42	III	IP20	303	10
23417 XXX0	M20/M26H - SPY 39 FRAMER MDL	0,41	0,143	0,553	III	IP20	825	10

23418 XXX5	M20/M26H - SPY 39 FRAMER DIM5	0,41	0,143	0,553	III	IP20	825	10
23419 XXX0	M20/M26H - SPY 39 WALLWASH MDL	0,216	0,124	0,34	III	IP20	431	7
23420 XXX5	M20/M26H - SPY 39 WALLWASH DIM5	0,216	0,124	0,34	III	IP20	431	7
23421 XXX0	M20/M26H - SPY 39 WALLWASH SOFT MDL	0,216	0,124	0,34	III	IP20	341	7
23422 XXX5	M20/M26H - SPY 39 WALLWASH SOFT DIM5	0,216	0,124	0,34	III	IP20	341	7
23423 XXX0	M20/M26H - SPY 391 SOFT MDL	0,3	0,12	0,42	III	IP20	508	7
23424 XXX5	M20/M26H - SPY 391 SOFT DIM5	0,3	0,12	0,42	III	IP20	508	7
23427 XXX0	M20/M26H - SPY 392 SOFT MDL	0,442	0,133	0,575	III	IP20	1016	14
23428 XXX5	M20/M26H - SPY 392 SOFT DIM5	0,442	0,133	0,575	III	IP20	1016	14
23429 XXX0	M26L - SPY 39 FOCUS MDL	0,219	0,134	0,353	III	IP20	303	10
23430 XXX5	M26L - SPY 39 FOCUS DIM5	0,219	0,134	0,353	III	IP20	303	10
23431 XXX0	M26L - SPY 39 FRAMER MDL	0,379	0,112	0,491	III	IP20	825	10
23432 XXX5	M26L - SPY 39 FRAMER DIM5	0,379	0,112	0,491	III	IP20	825	10
23433 XXX0	M26L - SPY 39 WALLWASH MDL	0,189	0,095	0,284	III	IP20	431	7
23434 XXX5	M26L - SPY 39 WALLWASH DIM5	0,3	0,12	0,42	III	IP20	431	7
23435 XXX0	M26L - SPY 39 WALLWASH SOFT MDL	0,189	0,095	0,284	III	IP20	341	7
23436 XXX5	M26L - SPY 39 WALLWASH SOFT DIM5	0,189	0,095	0,284	III	IP20	341	7
23437 XXX0	M26L - SPY 391 SOFT MDL	0,3	0,12	0,42	III	IP20	508	7
23438 XXX5	M26L - SPY 391 SOFT DIM5	0,3	0,12	0,42	III	IP20	508	7
23441 XXX0	M26L - SPY 392 SOFT MDL	0,397	0,141	0,538	III	IP20	1016	14
23442 XXX5	M26L - SPY 392 SOFT DIM5	0,397	0,141	0,538	III	IP20	1016	14
24426 XXX0	M52-SPY FOCUS MP MDL	0,689	0,184	0,873	III	IP20	735	20
24427 XXX5	M52-SPY FOCUS MP DIM5	0,684	0,197	0,881	III	IP20	735	20
24428 XXX0	M52-SPY FOCUS LP MDL	0,686	0,198	0,884	III	IP20	399	10
24429 XXX5	M52-SPY FOCUS LP DIM5	0,686	0,198	0,884	III	IP20	399	10
24430 XXX0	M52 - SPY 391 MDL	0,403	0,174	0,577	III	IP20	888	10
24431 XXX5	M52 - SPY 391 DIM5	0,404	0,179	0,583	III	IP20	888	10
24434 XXX0	M52 - SPY 52 MDL	0,529	0,252	0,781	III	IP20	939	14
24435 XXX5	M52 - SPY 52 DIM5	0,529	0,254	0,783	III	IP20	939	14
24438 XXX0	M52 - SPY 66 MDL	0,663	0,217	0,88	III	IP20	2007	29
24439 XXX5	M52 - SPY 66 DIM5	0,663	0,217	0,88	III	IP20	2007	29
24440 XXX0	M52 - SPY 391 L MDL	0,506	0,25	0,756	III	IP20	737	10
24441 XXX5	M52 - SPY 391 L DIM5	0,506	0,242	0,748	III	IP20	737	10
24445 XXX5	M52 - SPY 52 TW DIM5	0,532	0,245	0,777	III	IP20	695	10
24446 XXX5	M52 - SPY 66 TW DIM5	0,663	0,217	0,88	III	IP20	776	10
24451 XXX0	M52 - SPY 52 SOFT MDL	0,529	0,252	0,781	III	IP20	662	12
24452 XXX5	M52 - SPY 52 SOFT DIM5	0,529	0,252	0,781	III	IP20	662	12
24453 XXX0	M52 - SPY 391 SOFT MDL	0,403	0,174	0,577	III	IP20	508	7
24454 XXX5	M52 - SPY 391 SOFT DIM5	0,403	0,174	0,577	III	IP20	508	7
24633 XXX0	M26L/M35R - SPY 66 WALLWASH MDL	0,51	0,159	0,669	III	IP20	1149	20
24634 XXX5	M26L/M35R - SPY 66 WALLWASH DIM5	0,518	0,161	0,679	III	IP20	1149	20
24635 XXX0	M20/M26H - SPY 66 WALLWASH MDL	0,6	0,18	0,78	III	IP20	1149	20
24636 XXX5	M20/M26H - SPY 66 WALLWASH DIM5	0,6	0,18	0,78	III	IP20	1149	20

Applicable extrapolation coefficients:

Mass code	Extrapol. FU	A1-A3 Fabrication stage	A4 Distribution stage	A5 Installation stage	B6 Use stage	C1-C4 EOL stage	D Benefits beyond the system
421 612 811 XXX MDL	1,772	1,946	1,818	1,563	0,500	1,818	1,946
19888 XXX5	1,827	0,951	0,937	0,908	0,357	0,937	0,951
19889 XXX0	1,827	1,069	1,023	0,931	0,714	1,023	1,069
19890 XXX5	1,827	1,146	0,994	0,690	0,357	0,994	1,146
19892 XXX0	1,916	0,951	0,946	0,937	0,857	0,946	0,951
19893 XXX5	1,916	0,860	0,803	0,690	0,429	0,803	0,860
19894 XXX0	1,916	1,146	0,994	0,690	0,857	0,994	1,146
19895 XXX5	1,916	1,146	0,994	0,690	0,429	0,994	1,146
23210 XXX0	1,956	0,511	0,424	0,511	0,500	0,424	0,511
23211 XXX5	1,956	0,517	0,424	0,517	0,250	0,424	0,517
23212 XXX0	1,956	0,602	0,576	0,523	0,500	0,576	0,602
23213 XXX5	1,956	0,602	0,576	0,523	0,250	0,576	0,602
23215 XXX5	1,351	1,043	1,000	0,914	0,357	1,000	1,043
23230 XXX0	2,252	1,476	1,273	0,868	0,714	1,273	1,476
23231 XXX5	2,252	1,458	1,300	0,983	0,357	1,300	1,458
23232 XXX0	1,278	1,476	1,273	0,868	1,429	1,273	1,476
23233 XXX5	1,278	1,458	1,300	0,983	0,714	1,300	1,458
23258 XXX0	1,057	0,897	0,755	0,897	0,714	0,755	0,897
23259 XXX5	1,057	0,860	0,803	0,690	0,357	0,803	0,860
23260 XXX0	0,532	1,195	1,094	0,891	1,429	1,094	1,195
23261 XXX5	0,532	1,215	1,130	0,960	0,714	1,130	1,215
23274 XXX0 (reference)	1,000	1,000	1,000	1,000	1,000	1,000	1,000
23275 XXX5	1,000	1,049	0,996	0,891	0,500	0,996	1,049
23278 XXX0	0,468	1,461	1,279	0,914	2,071	1,279	1,461
23279 XXX5	0,468	1,484	1,298	0,925	1,036	1,298	1,484
23280 XXX0	3,260	0,860	0,803	0,690	0,500	0,803	0,860
23281 XXX5	3,260	0,860	0,803	0,690	0,250	0,803	0,860
23282 XXX0	1,630	1,017	0,990	0,937	0,929	0,990	1,017
23283 XXX5	1,630	1,017	0,990	0,937	0,464	0,990	1,017
23284 XXX0	1,274	0,980	0,973	0,960	0,714	0,973	0,980
23285 XXX5	1,274	0,980	0,973	0,960	0,357	0,973	0,980
23292 XXX5	1,210	1,476	1,268	0,851	0,357	1,268	1,476
23293 XXX0	0,970	1,370	1,222	0,925	1,000	1,222	1,370
23294 XXX5	0,970	1,370	1,222	0,925	0,500	1,222	1,370
23295 XXX0	1,371	1,370	1,222	0,925	0,857	1,222	1,370
23296 XXX5	1,371	1,370	1,222	0,925	0,429	1,222	1,370
23297 XXX0	1,414	1,146	0,994	0,690	0,857	0,994	1,146

23298 XXX5	1,414	1,146	0,994	0,690	0,429	0,994	1,146
23311 XXX0	1,956	0,529	0,503	0,529	0,500	0,503	0,529
23312 XXX5	1,956	0,529	0,503	0,529	0,250	0,503	0,529
23313 XXX0	0,978	0,902	0,788	0,902	0,929	0,788	0,902
23314 XXX5	0,978	0,902	0,788	0,902	0,464	0,788	0,902
23315 XXX0	1,057	0,891	0,826	0,891	0,714	0,826	0,891
23316 XXX5	1,057	0,891	0,826	0,891	0,357	0,826	0,891
23317 XXX0	0,532	1,341	1,178	0,851	1,429	1,178	1,341
23318 XXX5	0,532	1,338	1,216	0,971	0,714	1,216	1,338
23323 XXX0	1,000	1,152	1,090	0,966	1,000	1,090	1,152
23324 XXX5	1,000	1,163	1,096	0,960	0,500	1,096	1,163
23327 XXX0	0,468	1,607	1,411	1,017	2,071	1,411	1,607
23328 XXX5	0,468	1,607	1,411	1,017	1,036	1,411	1,607
23331 XXX5	1,351	1,160	1,094	0,960	0,357	1,094	1,160
23332 XXX0	1,278	1,625	1,392	0,925	1,429	1,392	1,625
23353 XXX5	1,772	1,917	1,832	1,661	0,250	1,832	1,917
23360 XXX5	1,210	1,602	1,392	0,971	0,357	1,392	1,602
23373 XXX5	1,278	1,625	1,392	0,925	0,714	1,392	1,625
23378 XXX0	2,241	1,605	1,384	0,943	0,714	1,384	1,605
23379 XXX5	2,241	1,622	1,363	0,845	0,357	1,363	1,622
23385 XXX0	3,260	0,885	0,759	0,885	0,500	0,759	0,885
23386 XXX5	3,260	0,885	0,759	0,885	0,250	0,759	0,885
23387 XXX0	1,630	1,433	1,243	0,862	0,929	1,243	1,433
23388 XXX5	1,630	1,433	1,243	0,862	0,464	1,243	1,433
23389 XXX0	1,274	1,080	1,069	1,046	0,714	1,069	1,080
23390 XXX5	1,274	1,080	1,069	1,046	0,357	1,069	1,080
23398 XXX0	1,414	1,433	1,243	0,862	0,857	1,243	1,433
23399 XXX5	1,414	1,433	1,243	0,862	0,429	1,243	1,433
23411 XXX0	0,970	1,069	1,023	0,931	1,000	1,023	1,069
23412 XXX5	0,970	1,069	1,023	0,931	0,500	1,023	1,069
23413 XXX0	1,371	1,069	1,023	0,931	0,857	1,023	1,069
23414 XXX5	1,371	1,069	1,023	0,931	0,429	1,023	1,069
23415 XXX0	3,099	0,860	0,803	0,690	0,714	0,803	0,860
23416 XXX5	3,099	0,860	0,803	0,690	0,357	0,803	0,860
23417 XXX0	1,138	1,175	1,057	0,822	0,714	1,057	1,175
23418 XXX5	1,138	1,175	1,057	0,822	0,357	1,057	1,175
23419 XXX0	2,179	0,713	0,650	0,713	0,500	0,650	0,713
23420 XXX5	2,179	0,713	0,650	0,713	0,250	0,650	0,713
23421 XXX0	2,754	0,713	0,650	0,713	0,500	0,650	0,713
23422 XXX5	2,754	0,713	0,650	0,713	0,250	0,650	0,713
23423 XXX0	1,848	0,860	0,803	0,690	0,500	0,803	0,860
23424 XXX5	1,848	0,860	0,803	0,690	0,250	0,803	0,860
23427 XXX0	0,924	1,266	1,099	0,764	1,000	1,099	1,266

23428 XXX5	0,924	1,266	1,099	0,764	0,500	1,099	1,266
23429 XXX0	3,099	0,770	0,675	0,770	0,714	0,675	0,770
23430 XXX5	3,099	0,770	0,675	0,770	0,357	0,675	0,770
23431 XXX0	1,138	1,086	0,939	0,644	0,714	0,939	1,086
23432 XXX5	1,138	1,086	0,939	0,644	0,357	0,939	1,086
23433 XXX0	2,179	0,546	0,543	0,546	0,500	0,543	0,546
23434 XXX5	2,179	0,860	0,803	0,690	0,250	0,803	0,860
23435 XXX0	2,754	0,546	0,543	0,546	0,500	0,543	0,546
23436 XXX5	2,754	0,546	0,543	0,546	0,250	0,543	0,546
23437 XXX0	1,848	0,860	0,803	0,690	0,500	0,803	0,860
23438 XXX5	1,848	0,860	0,803	0,690	0,250	0,803	0,860
23441 XXX0	0,924	1,138	1,029	0,810	1,000	1,029	1,138
23442 XXX5	0,924	1,138	1,029	0,810	0,500	1,029	1,138
24426 XXX0	1,278	1,974	1,669	1,057	1,429	1,669	1,974
24427 XXX5	1,278	1,960	1,685	1,132	0,714	1,685	1,960
24428 XXX0	2,353	1,966	1,690	1,138	0,714	1,690	1,966
24429 XXX5	2,353	1,966	1,690	1,138	0,357	1,690	1,966
24430 XXX0	1,057	1,155	1,103	1,000	0,714	1,103	1,155
24431 XXX5	1,057	1,158	1,115	1,029	0,357	1,115	1,158
24434 XXX0	1,000	1,516	1,493	1,448	1,000	1,493	1,516
24435 XXX5	1,000	1,516	1,497	1,460	0,500	1,497	1,516
24438 XXX0	0,468	1,900	1,683	1,247	2,071	1,683	1,900
24439 XXX5	0,468	1,900	1,683	1,247	1,036	1,683	1,900
24440 XXX0	1,274	1,450	1,446	1,437	0,714	1,446	1,450
24441 XXX5	1,274	1,450	1,430	1,391	0,357	1,430	1,450
24445 XXX5	1,351	1,524	1,486	1,408	0,357	1,486	1,524
24446 XXX5	1,210	1,900	1,683	1,247	0,357	1,683	1,900
24451 XXX0	1,418	1,516	1,493	1,448	0,857	1,493	1,516
24452 XXX5	1,418	1,516	1,493	1,448	0,429	1,493	1,516
24453 XXX0	1,848	1,155	1,103	1,000	0,500	1,103	1,155
24454 XXX5	1,848	1,155	1,103	1,000	0,250	1,103	1,155
24633 XXX0	0,817	1,461	1,279	0,914	1,429	1,279	1,461
24634 XXX5	0,817	1,484	1,298	0,925	0,714	1,298	1,484
24635 XXX0	0,817	1,719	1,491	1,034	1,429	1,491	1,719
24636 XXX5	0,817	1,719	1,491	1,034	0,714	1,491	1,719

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)