Environmental Product Declaration

EPD of multiple products, based on a representative product in accordance with ISO 14025:2017 and EN 15804:2012+A2:2019/ AC:2021 for:

SETA 60 CONEX system

from XAL GmbH

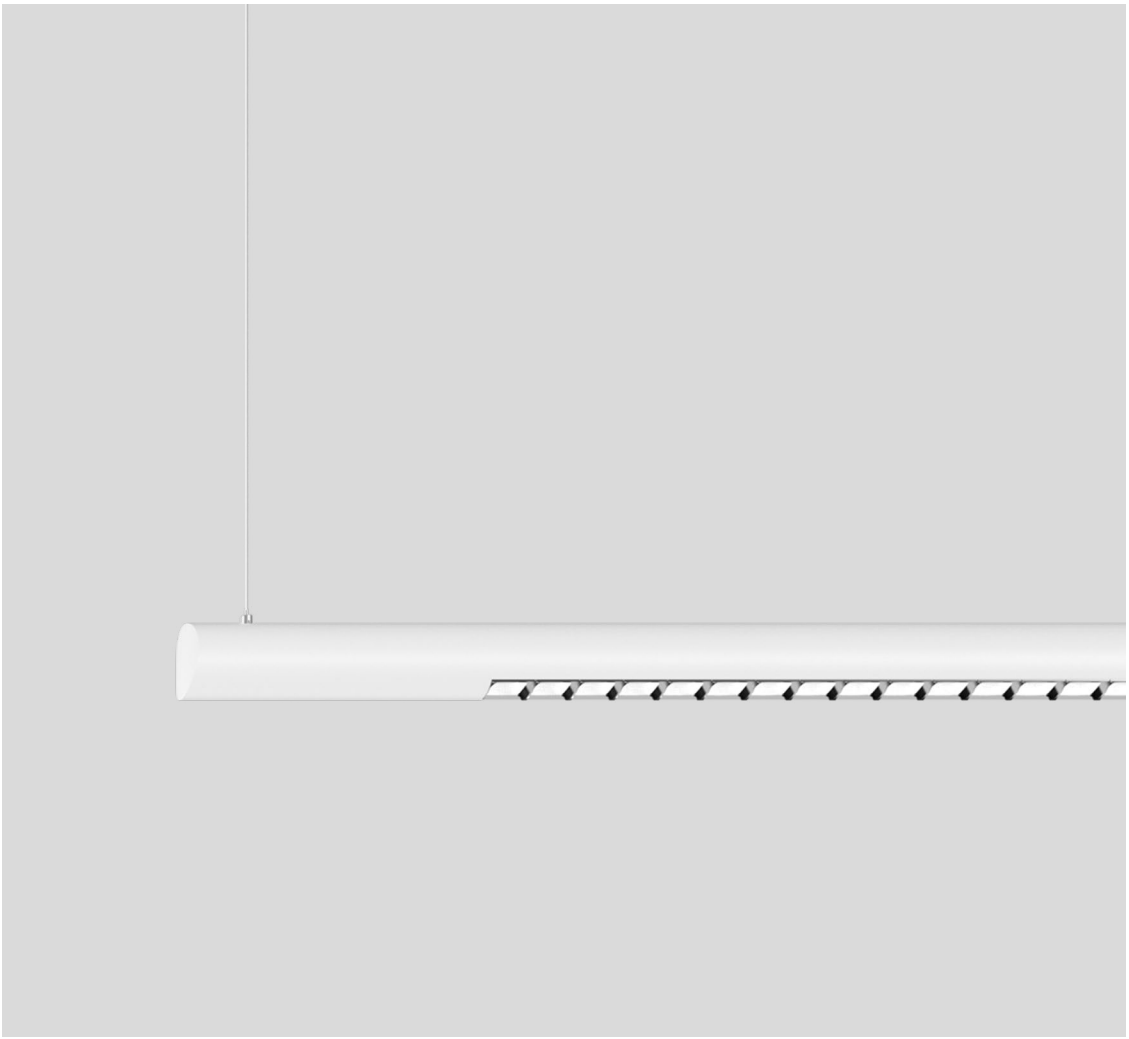
Included Products:

- **SETA 60** CONEX direct surface / suspended system (reference product)
- **SETA 60** CONEX direct / indirect suspended system
- **SETA 60** CONEX indirect suspended system

Programme
The International EPD® System
www.environdec.com

Programme operator
EPD International AB

EPD registration number	EPD-IES-0022317:001
Publication date	2025-06-05
Valid until	2030-06-04



This EPD follows additional requirements for construction products considered as Electronic or Electric Equipment. An EPD should provide current information and may be updated if conditions change. The stated validity is therefore subject to the continued registration and publication at www.environdec.com

EPD®
THE INTERNATIONAL EPD® SYSTEM

ECO PLATFORM EPD VERIFIED

General information

Programme information

Programme System	The International EPD®
Address	EPD International AB Box 210 60 SE-100 31 Stockholm Sweden
Website	www.environdec.com
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CEN standard EN 15804 serves as the Core Product Category Rules (PCR)

Product Category Rules (PCR)
PCR 2019:14 Construction products version 1.3.4, 2024-04-30
UN CPC code(s): 4653 (Ver. 2.1) Lighting Equipment

PCR review was conducted by
The Technical Committee of the International EPD® System

Life Cycle Assessment (LCA) accountability
XAL GmbH, Auer-Welsbach-Gasse 36, 8055 Graz, Austria

Independent third-party verification of the declaration and data, according to ISO 14025:2006, via

☒ EPD verification by individual verifier

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Approved by
The International EPD® System

The EPD owner has the sole ownership, liability, and responsibility for the EPD.

EPDs within the same product category but registered in different EPD programs, or not compliant with EN 15804:2012+A2:2019/AC:2021, may not be comparable. For two EPDs to be comparable, they must be based on the same PCR (including the same version number) or be based on fully-aligned PCRs or versions of PCRs; cover products with identical functions, technical performances and use (e.g. identical declared/declared units); have equivalent system boundaries and descriptions of data; apply equivalent data quality requirements, methods of data collection, and allocation methods; apply identical cut-off rules and impact assessment methods (including the same version of characterization factors); have equivalent content declarations; and be valid at the time of comparison. For further information about comparability, see EN 15804:2012+A2:2019/AC:2021 and ISO 14025:2006.

Company information

Owner of the EPD

XAL GmbH
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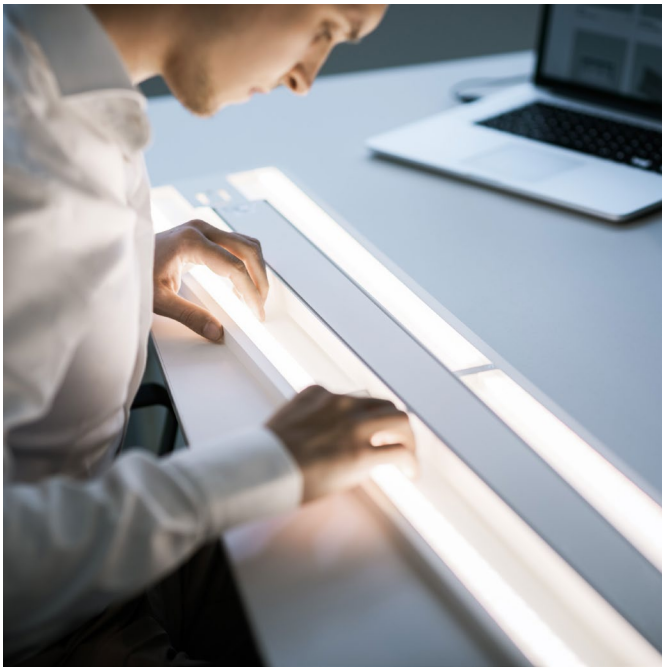


Description of the organisation

XAL is an internationally operating manufacturer of high-end luminaires and lighting solutions for shop, office, hotel and residential lighting. For 30 years, XAL has been working with lighting designers, architects and planners to develop custom luminaires of the highest technical standard, with a focus on style and aesthetics. While XAL mainly targets B2B costumers, we also provide our standard portfolio to B2C costumers.

With its headquarters in Graz, Austria, the XAL Group currently employs 1300 people worldwide and has 30 international subsidiaries. We are continuously working on further improving our products – whether in terms of durability, efficiency, the carbon footprint, or also with regard to the replaceability and reusability of components and materials.

Product-related or management system-related certifications

XAL is certified according to several management and CSR standards.

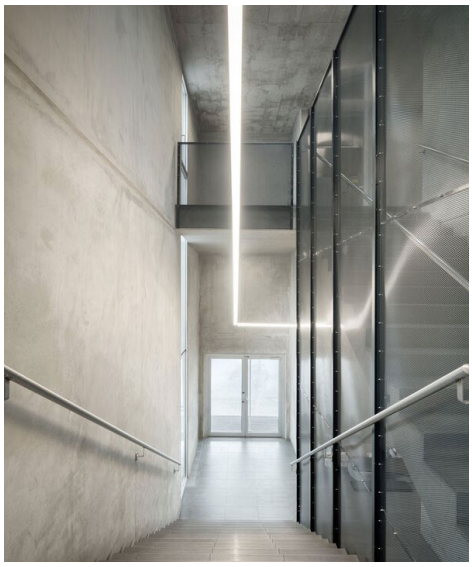
- **ISO 9001** – Quality management systems
- **ISO 14001** – Environmental management systems
- **ISO 45001** – Occupational health and safety management systems
- **Ecovadis** – regular evaluation of our corporate social responsibility based on objective criteria with a focus on the environment, labour and human rights, ethics and responsible procurement.
- **UN Global Compact initiative** – our interactions with each other and our stakeholders, our supply chain management and our resource strategies are guided by the principles of the UN Global compact.

Name and location of production site(s)
The production sites are located in Murska Sobota (XAL Svetila d.o.o., Slovenia) and in Graz (XAL GmbH, Austria).

The production facilities operate in a complementary manner, with each product passing through both facilities.

More information
xal.com

Product information



Product name

SETA 60 CONEX system

Product identification

Cylindrical lighting system in aluminium. Available in four different sizes.

This EPD covers multiple products:

- **SETA 60** CONEX direct surface / suspended system (reference product)
- **SETA 60** CONEX direct / indirect suspended system
- **SETA 60** CONEX indirect suspended system

Product description

Luminaire housing made of extruded aluminium profile; extremely slim design (only Ø 60 mm) linear; available in four sizes (1181 mm, 1474 mm, 2351 mm and 2369 mm; converter integrated into luminaire housing; for lighting systems; surface white powder coated; for ceiling surface mounting or suspended mounting (1500 mm cable suspension - as an accessory); light colour 3000 K; binning initial MacAdam ≤ 3 SDCM; CRI ≥ 80; min. 90% of luminous flux after 50000 operating hours; energy efficient LEDs with high CRI; degree of protection IP20; PC1; 220-240 V; incl. DALI-2 converter.

CB

The products covered by this EPD are thoroughly tested in our externally accredited in-house facilities. CB is available.

UN CPC code(s):

- 4653 (Ver. 2.1) Lighting Equipment

Technical specifications

Specification	**SETA 60** CONEX direct surface / suspended system (ref. prod.)	**SETA 60** CONEX direct / indirect suspended system	**SETA 60** CONEX indirect suspended system
Inset power	18.6 W	42 W	24.1 W
Luminous efficacy	up to 142 lm/W	up to 141 lm/W	up to 135 lm/W
Colour temperature	3000 K, 4000 K	3000 K, 4000 K	3000 K, 4000 K
Electrical	DALI-2	DALI-2	DALI-2
Physical	Length 1181 mm; Width 60 mm; Height 60 mm	Length 1181 mm; Width 60 mm; Height 60 mm	Length 1181 mm; Width 60 mm; Height 60 mm

LCA information

Declared unit

The declared unit is one piece of SETA 60 CONEX direct surface / suspended system including all accessories weighted based on sales volume. This product has been chosen as the reference due to the highest share of sales. The weight of the product per declared unit is 2.45 kg. The length versions use the exact same materials and production technology. The results can be scaled for all different types. For better comparison with other types of luminaires, conversion factors are also available to convert the results to 1000 lumens during a reference lifetime of 35000 hours. This reference value is proposed by the PEP Category rules (PSR-0014-ed2.0-EN-2023 07 13). The scaling factors are available under 'Additional Environmental Information'.
The principles of “Modularity” and “polluter pay” have been followed.

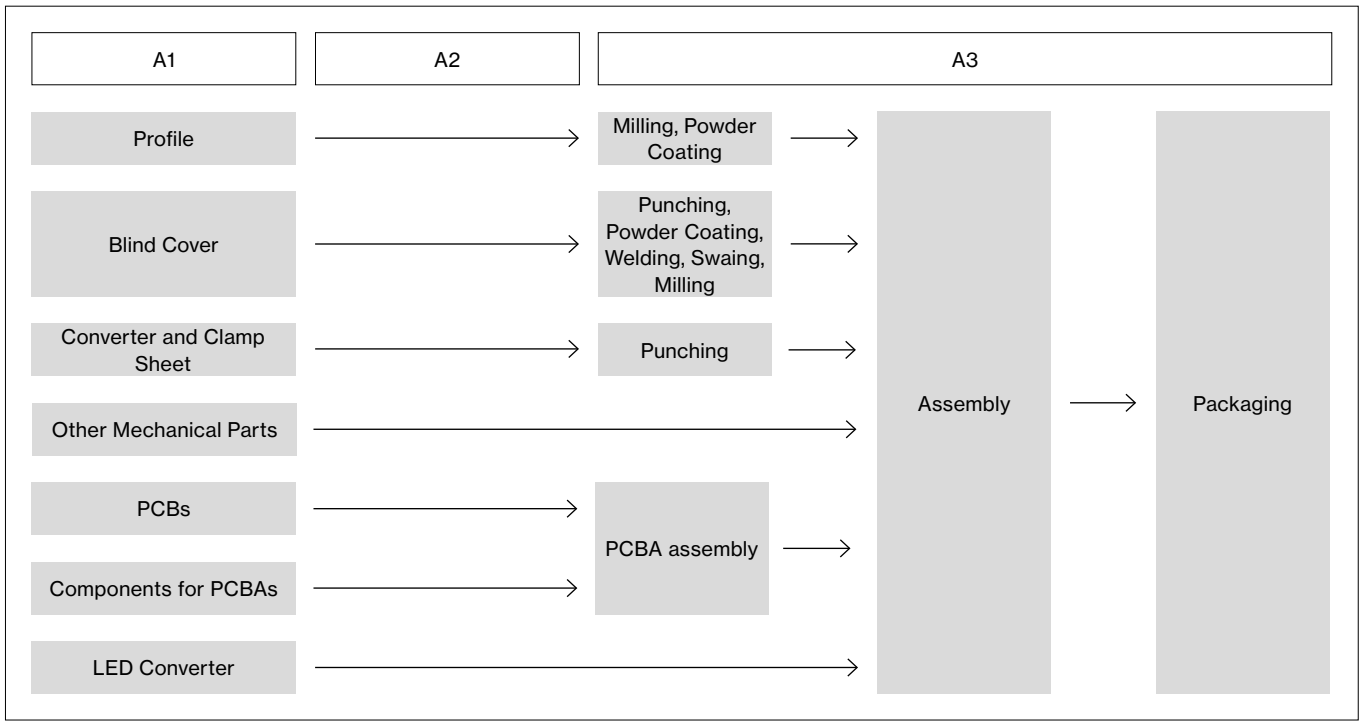
Reference service life
15 years

Time representativeness
2024

Database(s) and LCA software used
LCA for Experts 10.9.0.31

Description of system boundaries
Cradle to grave and module D

System diagram (A1 – A3)



Product stage (A1 – A3)

Raw materials are found in the components used for the luminaire production. The raw materials and the necessary process steps have been modelled using LCA for Experts. Assembling of the PCBA is done in Austria. Milling, powdercoating, sawing, welding and punching steps of components as well as the final assembly of the luminaire are done in Murska Sobota, Slovenia. The corresponding electricity mix has been used for all manufacturing steps. Transportation of all the components is incorporated. For the components which are delivered from China, aggregated data has been used, since transportation involved various routes and transport vehicles. Packaging for the components has been accounted for using a worst-case approach. The ESD-packaging is reused one time with a ratio of 50/50.

Transport to building (A4)

The transport is calculated from Graz, Austria to the capitals of the countries with sales shares >4% (Berlin, Vienna, Zürich and Helsinki). The product market includes countries all over the world.

Weighted distance	814.2 km
Truck used	Class EURO 6, 26-28 t
Fuel type	Diesel (0.00287 kg/100 kkm)

Installation into building (A5)

No emissions occur during the installation. This module includes the waste treatment of the packaging. For the transport-packaging. the euro pallet is reused 28 times. therefore only 1/28 of the weight is taken into account for the production and the end of life of the pallet. This is an assumption derived from the PEP Eco Passport rules (PSR-0014-ed2.0-EN-2023 07 13). Packaging waste incl transport packaging:

Material	Weight (kg)
Cardboard	0.60
Polyethylene film	0.0035
Wooden Pallet	0.0962
Paper	0.10

Use, maintenance, repair, replacement and refurbishment (B1, B2, B3, B4, B5)

These stages include the use, maintenance, repair, replacement and refurbishment of the product, which do not contribute to the environmental impacts of the products functional unit.

Operational Energy Use (B6)

The reference service life of the luminaire is 15 years. This calculation is based on the lifespan segments of the application areas. The application areas were determined based on sales data.

Electricity consumption during the use stage is modelled based on the technical parameters of the luminaires and is representative for a weighted average of the following application – office (100%). Geography of the electricity mix is modelled by sales shares and is representative for European countries (99.2% - EU-28) and rest of world countries (0.8%). For the rest of world countries, an electricity mix for China is used following a worst-case approach.

The energy consumption is calculated using the formula from EN 15193:2007: **Energy consumption [kWh] = {Pa × FCP × FO × (FD × tD + FN × tN) + Pp × ty} × 1/1.000 × a**

The results and additional Use Phase Information is presented in the table below:

Scenario	**SETA 60** CONEX direct surface / suspended system (ref. prod.)	**Unit**
Electricity use (15 years)	697.50	kWh
Active power	18.6	W
Passive power	0.3	W
Total active time	37500	hours
Total passive time	93900	hours
Dimmable	DALI-2 control	-
Presence control	No	-

Operational water use (B7)

No water is consumed during the use stage. Therefore this stage does not contribute to the environmental impacts of the products functional unit.

End-of-life stage (C1 – C4)

The product is presumed to be decomposed manually; therefore, no emissions should occur. For the corresponding waste destinations, the following distances are used:

- To recycling facility – 250 km
- To incineration facility – 50 km
- To landfill – 100 km for metal and electronic parts, 20 km for plastic parts and packaging waste

Based on official statistics and literature, waste treatment options are taken into account for Europe and rest of the world countries.

Scenario (luminaire + mounting accessory)	**SETA 60** CONEX direct surface / suspended system (ref. prod.)	**Unit**
Collected separately	2.45	kg
Collected with mixed (construction) waste	-	kg
For reuse	-	kg
For recycling	1.48	kg
For energy recovery	0.38	kg
For final disposal	0.59	kg

Module D

According to the guidelines of EN 15804+A2 and the PCR from EPD International, calculations are made for Module D. The loads and benefits result from the export of secondary materials and the energy which comes from incineration and landfilling. In Module D also the benefits from the product packaging waste are included.

Scenario (contributing materials, incl. packaging)	**SETA 60** CONEX direct surface / suspended system (ref. prod.)	**Unit**
Materials for recycling	2.05	kg
Materials for export of secondary fuels	-	kg
Materials for incineration	0.45	kg

Cut-off rules

Consistent with the PCR, a minimum of 95% of total inflows (mass and energy) are included. In addition, materials and processes with insignificant contributions of less than 1% are also included. For the use and end-of-life stage, scenarios are used, factoring in geographical conditions (such as electricity mix) and applications (waste treatment practices).

The following processes have been excluded:
- Manufacture of equipment used in production, buildings or any other capital goods;
- The transportation of personnel to the plant;
- Transportation of personnel within the plant;
- Research and development activities;
- Long-term emissions.

Data quality

Based on site specific information, this LCA study reflects the production for 2024. Components are supplied by external vendors, therefore manufacturing processes are modelled using LCA for Experts, with the best fitting representative geographical conditions and applications.

Electricity grid

For the manufacturing in Graz, Austria, the corresponding electricity grid mix as stated on the invoice is used: Biomass (65.64%), Solar (25.28%) other RE (9.08%).

For Murska Sobota, Slovenia, the corresponding electricity grid mix is: Hydro Power (58%), Solar (42%).

Environmental impact of the electricity used in	**AUT**	**SLO**
CO_2 eq. [kg/kWh]	0.031	0.015

Content information

Modules declared, geographical scope, share of specific data (in GWP-GHG results) and data variation (in GWP-GHG results):

	Product stage			Construction process stage		Use stage							End of life stage				Resource recovery stage
	Raw material supply	Transport	Manufacturing	Transport	Construction installation	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	De-construction demolition	Transport	Waste processing	Disposal	Reuse-Recovery-Recycling-potential
Module	**A1**	**A2**	**A3**	**A4**	**A5**	**B1**	**B2**	**B3**	**B4**	**B5**	**B6**	**B7**	**C1**	**C2**	**C3**	**C4**	**D**
Modules declared	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Geography	GLO	GLO	AUT, SLO	GLO	GLO	GLO	GLO	GLO	GLO	GLO	GLO	GLO	GLO	GLO	GLO	GLO	GLO
Specific data used	49.7%			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Variation – products	-10%/+39%			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Variation – sites	0%			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acronyms	GLO = Global, AUT = Austria, SLO = Slovenia																

Content information

Product components	Weight. kg	Weight-% (versus total weight)	Post-consumer material. weight-%	Biogenic material. weight-% / declared unit	Biogenic material. kg C / declared unit
Aluminum	1.41	57.45	0.00	0.00	0.00
Polycarbonate	0.29	11.82	0.00	0.00	0.00
Copper	0.17	6.77	0.00	0.00	0.00
Steel	0.14	5.91	0.00	0.00	0.00
Epoxy resin	0.13	5.21	0.00	0.00	0.00
Thermoplastics	0.11	4.41	0.00	0.00	0.00
Polytetrafluorethylene (PTFE)	0.04	1.83	0.00	0.00	0.00
Glass fibers	0.04	1.49	0.00	0.00	0.00
Brass	0.03	1.34	0.00	0.00	0.00
Others (<1%)	0.09	3.77	0.00	0.00	0.00
TOTAL	**2.45**	**100.00**	**0.00**	**0.00**	**0.00**

Packaging materials	Weight, kg	Weight-% (versus the product)	Weight biogenic carbon, kg C / declared unit
Paper	0.10	4.11	0.05
Cardboard	0.43	17.49	0.22
TOTAL	**0.53**	**21.60**	**0.27**

The products do not contain any REACH and RoHS SVHC substances in amounts greater than 0.1 % (1000 ppm).

Results of the environmental performance indicators

The estimated impact results are only relative statements, which do not indicate the endpoints of the impact categories, exceeding threshold values, safety margins and/or risks.

Usage of results from A1-A3 without considering the results of module C is not encouraged.

Mandatory impact category indicators according to EN 15804

Results per piece of SETA 60 CONEX direct surface / suspended system

Indicator	Unit	A1 – A3	A4	A5	B1 – B5	B6	B7	C1	C2	C3	C4	D
GWP – fossil	kg CO_2 eq.	3.67E+01	2.75E-01	2.63E-02	0.00E+00	2.23E+02	0.00E+00	0.00E+00	5.11E-02	1.54E+00	1.62E-02	-1.32E+01
GWP – biogenic	kg CO_2 eq.	-1.93E+00	0.00E+00	1.93E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.41E-04
GWP – luluc	kg CO_2 eq.	1.53E-01	2.93E-03	1.73E-04	0.00E+00	7.35E-01	0.00E+00	0.00E+00	5.45E-04	1.22E-04	3.84E-05	-2.71E-02
GWP – total	**kg CO_2 eq.**	**3.50E+01**	**2.77E-01**	**1.95E+00**	**0.00E+00**	**2.24E+02**	**0.00E+00**	**0.00E+00**	**5.16E-02**	**1.54E+00**	**1.63E-02**	**-1.32E+01**
ODP	kg CFC 11 eq.	6.79E-09	3.35E-14	3.26E-14	0.00E+00	5.00E-09	0.00E+00	0.00E+00	6.24E-15	1.01E-12	4.41E-14	-2.14E-10
AP	mol H+ eq.	1.86E-01	4.45E-04	8.15E-05	0.00E+00	4.94E-01	0.00E+00	0.00E+00	8.27E-05	3.62E-04	1.11E-04	-5.32E-02
EP – freshwater	kg P eq.	2.69E-04	7.68E-07	6.25E-07	0.00E+00	4.70E-04	0.00E+00	0.00E+00	1.43E-07	1.70E-07	2.60E-08	-8.00E-06
EP – marine	kg N eq.	3.97E-02	1.81E-04	3.69E-05	0.00E+00	1.18E-01	0.00E+00	0.00E+00	3.37E-05	9.74E-05	2.79E-05	-1.02E-02
EP – terrestrial	mol N eq.	4.31E-01	1.93E-03	3.44E-04	0.00E+00	1.32E+00	0.00E+00	0.00E+00	3.59E-04	1.63E-03	3.06E-04	-1.11E-01
POCP	kg NMVOC eq.	1.16E-01	3.85E-04	1.06E-04	0.00E+00	2.95E-01	0.00E+00	0.00E+00	7.15E-05	2.60E-04	8.53E-05	-2.98E-02
ADP – minerals & metals*	kg Sb eq.	1.43E-03	1.89E-08	1.53E-09	0.00E+00	4.57E-05	0.00E+00	0.00E+00	3.51E-09	1.57E-08	1.46E-09	-3.16E-04
ADP – fossil*	MJ	5.05E+02	3.62E+00	3.13E-01	0.00E+00	4.51E+03	0.00E+00	0.00E+00	6.74E-01	1.18E+00	2.35E-01	-1.73E+02
WDP*	m^3	8.74E+00	1.14E-03	1.37E-02	0.00E+00	5.61E+01	0.00E+00	0.00E+00	2.12E-04	1.59E-01	1.84E-03	-1.33E+00

Acronyms	GWP-fossil = Global Warming Potential fossil fuels; GWP-biogenic = Global Warming Potential biogenic; GWP-luluc = Global Warming Potential land use and land use change; ODP = Depletion potential of the stratospheric ozone layer; AP = Acidification potential. Accumulated Exceedance; EP-freshwater = Eutrophication potential. fraction of nutrients reaching freshwater end compartment; EP-marine = Eutrophication potential. fraction of nutrients reaching marine end compartment; EP-terrestrial = Eutrophication potential. Accumulated Exceedance; POCP = Formation potential of tropospheric ozone; ADP-minerals&metals = Abiotic depletion potential for non-fossil resources; ADP-fossil = Abiotic depletion for fossil resources potential; WDP = Water (user) deprivation potential. deprivation-weighted water consumption

* Disclaimer: The results of this environmental impact indicator shall be used with care as the uncertainties of these results are high or as there is limited experience with the indicator.

Additional mandatory and voluntary impact category indicators

Results per piece of SETA 60 CONEX direct surface / suspended system

Indicator	Unit	A1 – A3	A4	A5	B1 – B5	B6	B7	C1	C2	C3	C4	D
GWP – GHG[1]	kg CO_2 eq.	3.69E+01	2.77E-01	2.65E-02	0.00E+00	2.24E+02	0.00E+00	0.00E+00	5.16E-02	1.54E+00	1.63E-02	-1.32E+01
PM	disease inc.	2.28E-06	4.24E-09	6.50E-10	0.00E+00	4.17E-06	0.00E+00	0.00E+00	7.89E-10	3.99E-09	1.33E-09	-7.44E-07
IRP – HE**	kg U235-eq	1.81E+00	6.61E-04	5.63E-04	0.00E+00	1.16E+02	0.00E+00	0.00E+00	1.23E-04	1.48E-02	3.55E-04	-7.89E-01
ETP – fw*	CTUe	2.55E+02	4.70E+00	3.33E-01	0.00E+00	7.59E+02	0.00E+00	0.00E+00	8.74E-01	3.65E-01	1.52E-01	-5.88E+01
HTP – c*	CTUh	2.22E-08	6.32E-11	5.57E-12	0.00E+00	7.19E-08	0.00E+00	0.00E+00	1.18E-11	3.38E-11	1.26E-11	-8.90E-09
HTP – nc*	CTUh	3.23E-07	3.57E-09	3.43E-10	0.00E+00	1.51E-06	0.00E+00	0.00E+00	6.63E-10	2.19E-09	1.24E-09	-1.07E-07
SQP	dimension-less	1.20E+02	1.61E+00	1.07E-01	0.00E+00	1.79E+03	0.00E+00	0.00E+00	2.99E-01	4.06E-01	4.47E-02	1.34E+02

Acronyms	PM = particulate matter emissions. IRP-HE = ionizing radiation potential-human exposure. ETP-fw = ecotoxicity (freshwater). HTP-c = human toxicity potential. cancer effects. HTP-nc = human toxicity potential. non-cancer effects. SQP = land use related impacts.

[1] The indicator includes all greenhouse gases included in GWP-total but excludes biogenic carbon dioxide uptake and emissions and biogenic carbon stored in the product. This indicator is thus almost equal to the GWP indicator originally defined in EN 15804:2012+A1:2013.

Results of the environmental performance indicators

Resource use indicators

		Results per piece of SETA 60 CONEX direct surface / suspended system									
Indicator	**Unit**	**A1 – A3**	**A4**	**A5**	**B1 – B5**	**B6**	**B7**	**C1**	**C2**	**C3**	**C4**	**D**
PERE	MJ	2.35E+02	2.67E-01	3.48E-02	0.00E+00	3.06E+03	0.00E+00	0.00E+00	4.96E-02	5.61E-01	3.66E-02	-6.98E+01
PERM	MJ	9.28E+00	0.00E+00	-9.26E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-1.83E-02	0.00E+00	0.00E+00
PERT	MJ	2.44E+02	2.67E-01	-9.22E+00	0.00E+00	3.06E+03	0.00E+00	0.00E+00	4.96E-02	5.43E-01	3.66E-02	-6.98E+01
PENRE	MJ	5.05E+02	3.62E+00	3.13E-01	0.00E+00	4.51E+03	0.00E+00	0.00E+00	6.74E-01	1.18E+00	2.35E-01	-1.73E+02
PENRM	MJ	1.86E+01	0.00E+00	-2.15E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-1.84E+01	0.00E+00	0.00E+00
PENRT	MJ	5.23E+02	3.62E+00	9.87E-02	0.00E+00	4.51E+03	0.00E+00	0.00E+00	6.74E-01	-1.72E+01	2.35E-01	-1.73E+02
SM	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E+00
RSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NRSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FW	m^3	3.16E-01	1.28E-04	3.31E-04	0.00E+00	2.40E+00	0.00E+00	0.00E+00	2.39E-05	3.91E-03	5.53E-05	-6.40E-02

Acronyms: PERE = Use of renewable primary energy excluding renewable primary energy resources used as raw materials; PERM = Use of renewable primary energy resources used as raw materials; PERT = Total use of renewable primary energy resources; PENRE = Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials; PENRM = Use of non-renewable primary energy resources used as raw materials; PENRT = Total use of non-renewable primary energy re-sources; SM = Use of secondary material; RSF = Use of renewable secondary fuels; NRSF = Use of non-renewable secondary fuels; FW = Use of net fresh water

Waste indicators

		Results per piece of SETA 60 CONEX direct surface / suspended system									
Indicator	**Unit**	**A1 – A3**	**A4**	**A5**	**B1 – B5**	**B6**	**B7**	**C1**	**C2**	**C3**	**C4**	**D**
Hazardous waste disposed	kg	4.36E-07	1.31E-10	2.11E-10	0.00E+00	5.86E-06	0.00E+00	0.00E+00	2.44E-11	7.34E-10	2.90E-11	-6.93E-08
Non-hazardous waste disposed	kg	5.79E+00	4.77E-04	5.65E-02	0.00E+00	3.48E+00	0.00E+00	0.00E+00	8.87E-05	1.62E-01	9.74E-01	-3.44E+00
Radioactive waste disposed	kg	1.50E-02	4.77E-06	3.64E-06	0.00E+00	7.05E-01	0.00E+00	0.00E+00	8.87E-07	9.97E-05	2.90E-06	-7.78E-03

Output flow indicators

		Results per piece of SETA 60 CONEX direct surface / suspended system									
Indicator	**Unit**	**A1 – A3**	**A4**	**A5**	**B1 – 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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Material for recycling	kg	5.71E-01	0.00E+00	7.15E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E+00	0.00E+00	7.92E-02
Materials for energy recovery	kg	0.00E+00	0.00E+00	5.69E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.89E-01	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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Exported energy. thermal	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Additional environmental information

Scaling Factors for SETA 60 CONEX direct / indirect suspended system and SETA 60 CONEX indirect suspended system

The SETA CONEX 60 direct / indirect suspended and SETA 60 CONEX indirect suspended variant have also been incorpotated into the model and therefore been scaled by real factors. All length versions of the SETA 60 CONEX system variants belong to an environmental homogenous family and fulfil the requirements established by the PEP-PCR-ed4-EN-2021 09 06 by PEP-ECO Passport. The SETA system variants use the same material and production technology, but there are differences in the dimension and weight of the components. These differences can be scaled based on the SETA 60 CONEX direct surface / suspended reference product.

The scaling factors are:

Variant	Length	A1–A3	A4	A5	B6	C1–C4	D
direct surface / suspended	1181	1.00	1.00	1.00	1.00	1.00	1.00
	1474	1.31	1.22	1.36	1.34	1.18	1.31
	2351	1.95	1.75	1.69	2.31	1.80	1.95
	2369	2.49	2.19	2.21	2.90	2.21	2.49
direct / indirect suspended	1181	1.39	1.14	1.00	3.39	1.36	1.00
	1474	2.72	1.52	1.36	2.85	1.91	1.94
	2351	4.14	1.81	1.69	4.68	2.03	2.72
	2369	5.23	2.70	2.21	5.91	3.53	3.74
indirect suspended	1181	0.90	0.94	1.00	2.16	0.96	0.92
	1474	1.23	0.98	1.36	2.64	0.93	1.25
	2351	1.81	1.44	1.69	2.53	1.46	1.83
	2369	2.27	1.79	2.21	3.12	1.79	2.31

Results for 1000 lumens during a reference life of 35000 hours produced by 1 SETA 60 CONEX system luminaire (As per reference of PEP-ECO Passport PSR-0014-ed2.0-EN-2023 07 13).

A conversion factor can be used for converting the results to 1000 lumens during a reference life of 35000 hours.

				Conversion factors					
Variant	**CRI**	**Lightcolour**	**Length**	**A1–A3**	**A4**	**A5**	**B6**	**C1–C4**	**D**
direct surface / suspended	80	3000K	1181	0.38	0.38	0.38	0.28	0.38	0.38
	80	4000K	1181	0.33	0.33	0.33	0.25	0.33	0.33
	90	3000K	1181	0.44	0.44	0.44	0.33	0.44	0.44
	90	4000K	1181	0.41	0.41	0.41	0.30	0.41	0.41
	80	3000K	1474	0.28	0.28	0.28	0.21	0.28	0.28
	80	4000K	1474	0.25	0.25	0.25	0.19	0.25	0.25
	90	3000K	1474	0.33	0.33	0.33	0.25	0.33	0.33
	90	4000K	1474	0.30	0.30	0.30	0.23	0.30	0.30
	80	3000K	2351	0.16	0.16	0.16	0.12	0.16	0.16
	80	4000K	2351	0.14	0.14	0.14	0.11	0.14	0.14
	90	3000K	2351	0.19	0.19	0.19	0.14	0.19	0.19
	90	4000K	2351	0.17	0.17	0.17	0.13	0.17	0.17
	80	3000K	2936	0.13	0.13	0.13	0.09	0.13	0.13
	80	4000K	2936	0.11	0.11	0.11	0.08	0.11	0.11
	90	3000K	2936	0.15	0.15	0.15	0.11	0.15	0.15
	90	4000K	2936	0.14	0.14	0.14	0.10	0.14	0.14

Variant	CRI	Lightcolour	Length	A1–A3	A4	A5	B6	C1–C4	D
direct / indirect suspended	80	3000K	1181	0.17	0.17	0.17	0.13	0.17	0.17
	80	4000K	1181	0.15	0.15	0.15	0.11	0.15	0.15
	90	3000K	1181	0.20	0.20	0.20	0.15	0.20	0.20
	90	4000K	1181	0.18	0.18	0.18	0.14	0.18	0.18
	80	3000K	1474	0.13	0.13	0.13	0.10	0.13	0.13
	80	4000K	1474	0.12	0.12	0.12	0.09	0.12	0.12
	90	3000K	1474	0.15	0.15	0.15	0.11	0.15	0.15
	90	4000K	1474	0.14	0.14	0.14	0.11	0.14	0.14
	80	3000K	2351	0.08	0.08	0.08	0.06	0.08	0.08
	80	4000K	2351	0.07	0.07	0.07	0.05	0.07	0.07
	90	3000K	2351	0.09	0.09	0.09	0.07	0.09	0.09
	90	4000K	2351	0.08	0.08	0.08	0.06	0.08	0.08
	80	3000K	2936	0.07	0.07	0.07	0.05	0.07	0.07
	80	4000K	2936	0.06	0.06	0.06	0.05	0.06	0.06
	90	3000K	2936	0.08	0.08	0.08	0.06	0.08	0.08
	90	4000K	2936	0.08	0.08	0.08	0.06	0.08	0.08
indirect suspended	80	3000K	1181	0.31	0.31	0.31	0.23	0.31	0.31
	80	4000K	1181	0.27	0.27	0.27	0.20	0.27	0.27
	90	3000K	1181	0.35	0.35	0.35	0.26	0.35	0.35
	90	4000K	1181	0.33	0.33	0.33	0.25	0.33	0.33
	80	3000K	1474	0.25	0.25	0.25	0.18	0.25	0.25
	80	4000K	1474	0.22	0.22	0.22	0.16	0.22	0.22
	90	3000K	1474	0.28	0.28	0.28	0.21	0.28	0.28
	90	4000K	1474	0.26	0.26	0.26	0.20	0.26	0.26
	80	3000K	2351	0.15	0.15	0.15	0.11	0.15	0.15
	80	4000K	2351	0.13	0.13	0.13	0.10	0.13	0.13
	90	3000K	2351	0.18	0.18	0.18	0.13	0.18	0.18
	90	4000K	2351	0.16	0.16	0.16	0.12	0.16	0.16
	80	3000K	2936	0.12	0.12	0.12	0.09	0.12	0.12
	80	4000K	2936	0.11	0.11	0.11	0.08	0.11	0.11
	90	3000K	2936	0.14	0.14	0.14	0.11	0.14	0.14
	90	4000K	2936	0.13	0.13	0.13	0.10	0.13	0.13

Information related to the sectorial EPD

This EPD is not sectoral.

Differences from previous versions

This is the first version of the EPD.

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