



Environmental Product Declaration

In accordance with ISO 14025:2006 and
EN 15804:2012+A2:2019/AC:2021 for:

MOVE IT PRO trimless system

from XAL GmbH

Programme

The International EPD® System
www.environdec.com

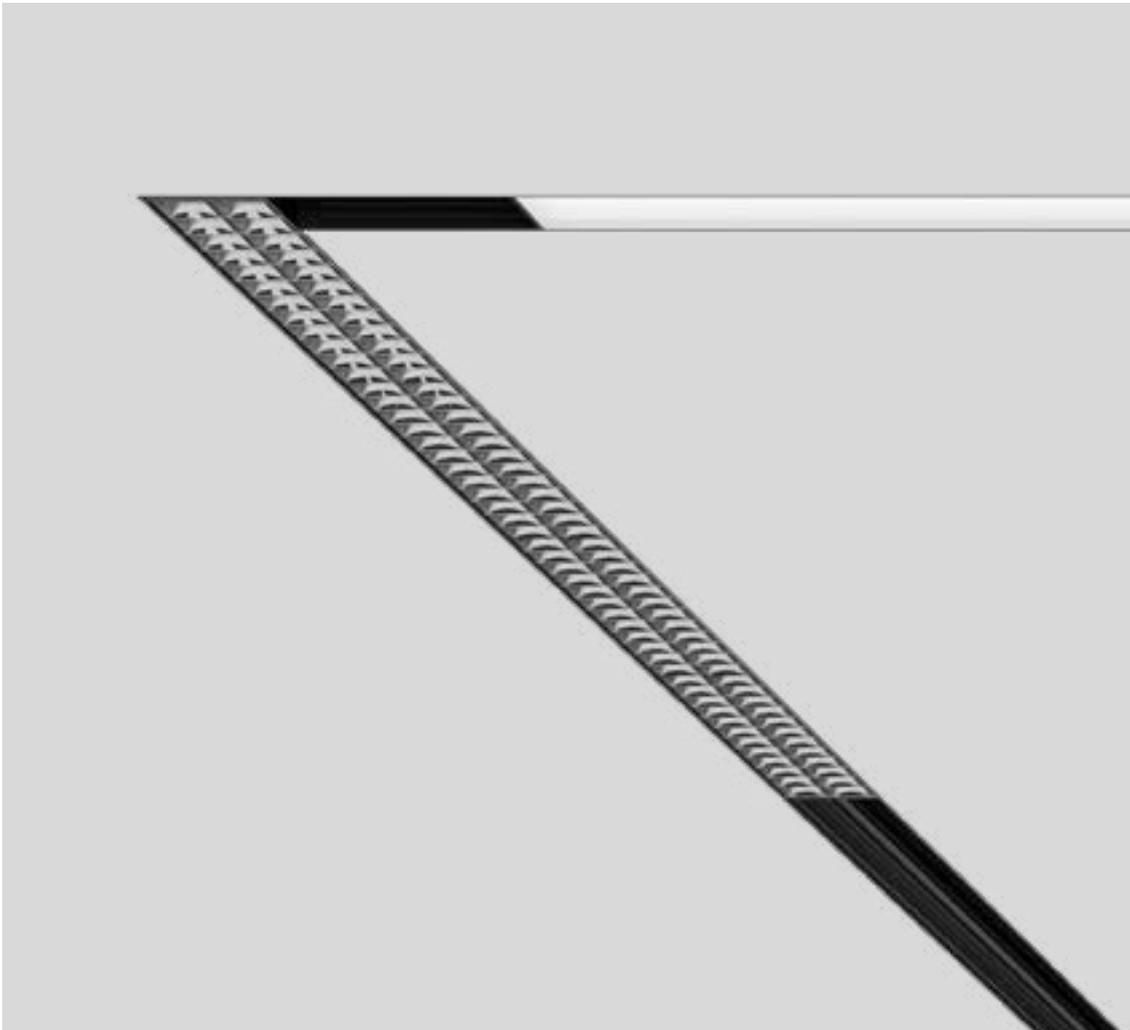
Programme operator

EPD International AB

EPD registration number EPD-IES-0017751:001

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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



Programme information

Programme System	The International EPD®
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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

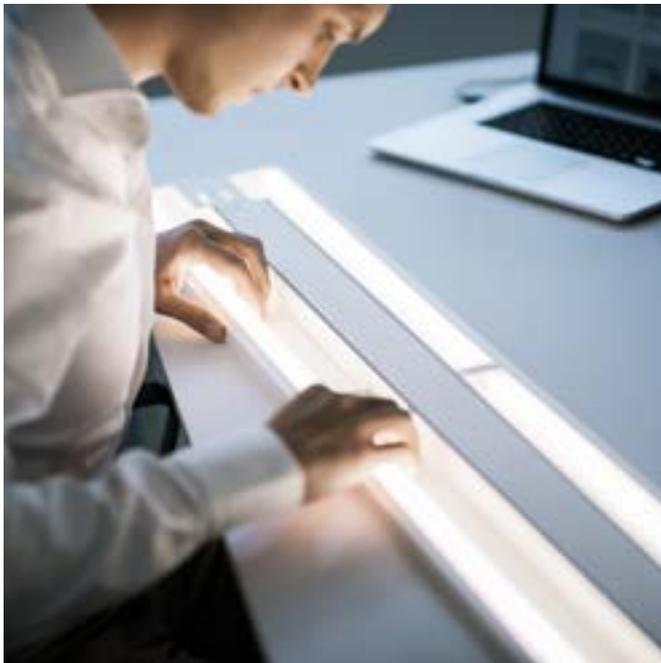
The EPD owner has the sole ownership, liability, and responsibility for the EPD.

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.

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

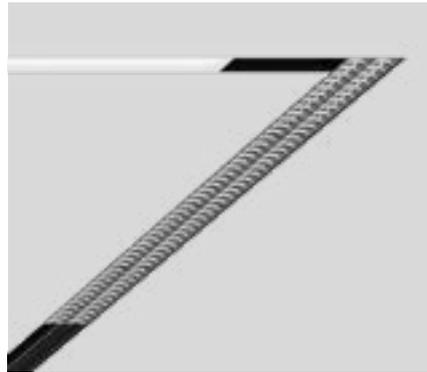
XAL is certified according to several management and CSR standards.

- **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).

More information
xal.com



Product name

MOVE IT PRO trimless system (reference product)

Product identification

The MOVE IT PRO trimless (Track 3-phase DALI track) lighting system is installed by embedding the light fixture directly into the ceiling with no visible frame or border around it. The track consists of an extruded aluminium profile with 45 mm width and 59 mm height and a power track. The system offers two separate emergency lighting circuits. Various sensors and flexible indirect lighting inserts provide a comprehensive solution. The tool-free installation and wide range of linear optics and spotlights offer flexibility in the design of offices, restaurants, shops, educational institutions, and public spaces. As a recessed, surface-mounted, or suspended system with T-, L-, and X-connectors, it allows for customised arrangements. Additional accessories following accessories can be added: Linear Connector Mech Pair, Blind Cover, Cutting Tool, End Caps, End Feed Poles, Middle Feeds, T/L/X – Connectors, Intrack feed

Product description

Track for ceiling surface mounting or suspended mounting (cable suspension as an accessory); height adjustment without tools; with integrated 3-phase copper conductors + 4 emergency lighting copper conductors (2 emergency lighting circuits) + 2 DALI copper conductors for take-off of supply voltage, emergency lighting power supply and DALI signal; surface white powder coated; insets, incl. high power adapter + converter can be installed flexibly and without tools; degree of protection IP20; PC1,



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	MOVE IT PRO trimless system
Physical	Length 1000 mm, width 45 mm, height 59 mm

Declared unit

The declared unit is 1000mm of MOVE IT PRO track trimless system including all accessories weighted based on sales volume. The Tracks are available in the sizes 1000mm, 2000mm, 3000mm, and 4000mm and can be customised to meet every special requirement. The length versions use the exact same materials and production technology. The results can be scaled for all different types.

The weight of the product per declared unit is 2.37 kg.

The principles of “Modularity” and “polluter pay” have been followed.

Reference service life

12.35 years

Time representativeness

2024

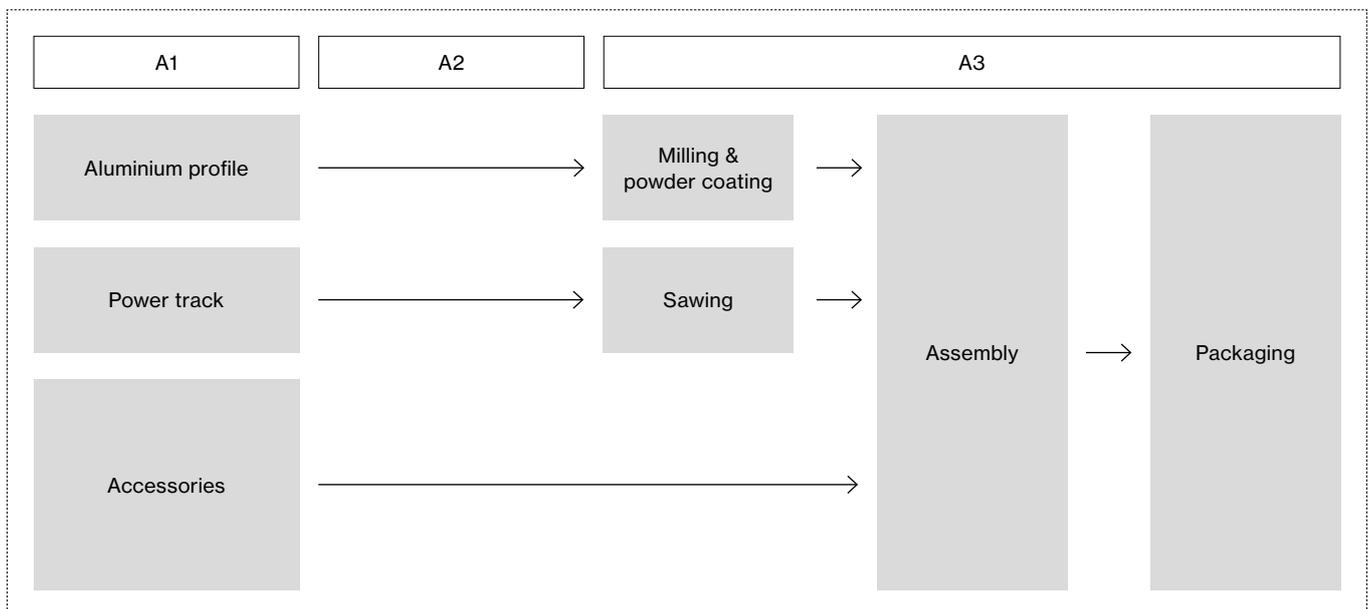
Database(s) and LCA software used

LCA for Experts 10.8.0.14

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. The milling and powder coating of the profiles as well as the assembly of the MOVE IT PRO trimless system is 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 within the company, therefore only 1/2 of the weight is taken into account for the production and the recycling. Since connectors typically consist of various material compositions, the EPDs of XAL GmbH assume plastic/metal connectors with a ratio of 50/50.

Transport to building (A4)

The transport is calculated from Graz to the capitals of the countries with sales shares >4% (Berlin, Paris, Vienna, Zürich, Berlin, Helsinki and Rome).

The product market includes countries all over the world.

Weighted distance:	846.6 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.

Packaging waste including transport packaging:

Material	Weight (kg)
Cardboard	0.8687
Paper	0.004
Polyethylene film	0.002
Wooden Pallet	0.069

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 product's functional unit.

Operational Energy Use (B6)

There is no impact related to use stage during RSL since luminaires nor any other energy related accessory is considered within the product system.

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)	MOVE IT PRO trimless system	Unit
Collected separately	2.370	kg
Collected with mixed (construction) waste	-	kg
For reuse	-	kg
For recycling	1.319	kg
For energy recovery	0.641	kg
For final disposal	0.411	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)	MOVE IT PRO trimless system	Unit
Materials for recycling	2.02	kg
Materials for export of secondary fuels	-	kg
Materials for incineration	0.73	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: Hydro (87.3%), Wind (8.4%), Solar (2%), Biomass (1.4%), other RE (0.9%).

For Murska Sobota, Slovenia, the electricity used is 100% from Hydro Power.

Environmental impact of the electricity used in	AUT	SLO
CO ₂ eq. [kg/kWh]	0.008	0.005

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

Module	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	>69%			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Variation – products	0%			-	-	-	-	-	-	-	-	-	-	-	-	-	-
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	1.54	65.08	12.30	0.00	0.00
Polycarbonate	0.34	14.17	0.00	0.00	0.00
Polymethylmethacrylate (PMMA)	0.25	10.50	0.00	0.00	0.00
Tin	0.06	2.74	0.00	0.00	0.00
Polyethylene terephthalate (PET)	0.04	1.82	0.00	0.00	0.00
Silane modified Polymers	0.04	1.72	0.00	0.00	0.00
Copper	0.03	1.18	0.00	0.00	0.00
Silicone	0.03	1.10	0.00	0.00	0.00
TOTAL	2.370	100.00	12.30	0.00	0.00

Packaging materials*	Weight, kg	Weight-% (versus the product)	Weight biogenic carbon, kg C / declared unit
Paper	0.004	0.16	0.002
Cardboard	0.745	31.43	0.38
TOTAL	0.749	31.59	0.38

* Disclaimer: The packaging material table includes only product packaging. Transport packaging also included in the LCA.

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+A2 (based on EF 3.1)

Results per 1000mm MOVE IT PRO trimless system												
Indicator	Unit	A1 – A3	A4	A5	B1 – B5	B6	B7	C1	C2	C3	C4	D
GWP – fossil	kg CO ₂ eq.	1.72E+01	2.56E-01	3.27E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E-02	1.68E+00	9.03E-03	-1.10E+01
GWP – biogenic	kg CO ₂ eq.	-1.48E+00	0.00E+00	1.48E+00	0.00E+00							
GWP – luluc	kg CO ₂ eq.	1.04E-02	4.37E-03	3.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.64E-04	3.01E-05	3.32E-05	-6.21E-04
GWP – total	kg CO₂ eq.	1.58E+01	2.56E-01	1.51E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E-02	1.68E+00	9.03E-03	-1.10E+01
ODP	kg CFC 11 eq.	1.21E-10	2.62E-14	3.52E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.98E-15	5.65E-13	2.64E-14	-6.95E-11
AP	mol H+ eq.	9.06E-02	3.72E-04	9.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.65E-05	2.94E-04	5.89E-05	-3.98E-02
EP – freshwater	kg P eq.	1.48E-04	1.11E-06	8.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-07	1.32E-07	1.76E-08	-1.35E-05
EP – marine	kg N eq.	1.49E-02	1.37E-04	4.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-05	6.74E-05	1.45E-05	-8.89E-03
EP – terrestrial	mol N eq.	1.61E-01	1.63E-03	4.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-04	1.36E-03	1.59E-04	-9.62E-02
POCP	kg NMVOC eq.	4.43E-02	3.52E-04	1.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.35E-05	1.86E-04	4.51E-05	-2.46E-02
ADP – minerals & metals*	kg Sb eq.	2.17E-04	2.21E-08	2.27E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E-09	1.26E-08	7.00E-10	-1.44E-05
ADP – fossil*	MJ	2.36E+02	3.39E+00	4.06E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.16E-01	7.59E-01	1.42E-01	-1.32E+02
WDP*	m ³	2.90E+00	3.87E-03	1.67E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.88E-04	1.59E-01	1.08E-03	-1.63E+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 1000mm MOVE IT PRO trimless system												
Indicator	Unit	A1 – A3	A4	A5	B1 – B5	B6	B7	C1	C2	C3	C4	D
GWP – GHG ¹	kg CO ₂ eq.	1.72E+01	2.56E-01	3.27E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E-02	1.68E+00	9.03E-03	-1.10E+01
PM	disease inc.	1.22E-06	3.76E-09	7.99E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.72E-10	3.35E-09	6.95E-10	-7.40E-07
IRP – HE**	kg U235-eq	1.90E+00	6.12E-04	6.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.31E-05	3.59E-03	2.44E-04	-8.06E-01
ETP – fw*	CTUe	8.34E+01	2.50E+00	2.85E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.79E-01	3.03E-01	8.48E-02	-3.80E+01
HTP – c*	CTUh	4.06E-08	5.00E-11	6.64E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.61E-12	2.58E-11	4.28E-12	-7.81E-09
HTP – nc*	CTUh	1.30E-07	2.23E-09	3.75E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-10	2.06E-09	3.53E-10	-9.90E-08
SQP	dimension-less	7.50E+01	1.68E+00	1.57E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-01	2.39E-01	2.69E-02	1.22E+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.

Resource use indicators

Indicator	Unit	Results per 1000mm MOVE IT PRO trimless system										
		A1 – A3	A4	A5	B1 – B5	B6	B7	C1	C2	C3	C4	D
PERE	MJ	1.12E+02	2.87E-01	4.55E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.36E-02	2.74E-01	2.11E-02	-5.41E+01
PERM	MJ	4.29E+00	0.00E+00	-4.29E+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
PERT	MJ	1.16E+02	2.87E-01	-4.25E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.36E-02	2.74E-01	2.11E-02	-5.41E+01
PENRE	MJ	2.36E+02	3.39E+00	4.06E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.16E-01	7.59E-01	1.42E-01	-1.32E+02
PENRM	MJ	1.87E+01	0.00E+00	-1.04E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-1.86E+01	0.00E+00	0.00E+00
PENRT	MJ	2.55E+02	3.39E+00	3.02E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.16E-01	-1.79E+01	1.42E-01	-1.32E+02
SM	kg	7.86E-01	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
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	m³	1.94E-01	3.22E-04	4.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.90E-05	3.81E-03	3.27E-05	-5.32E-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

Indicator	Unit	Results per 1000mm MOVE IT PRO trimless system										
		A1 – A3	A4	A5	B1 – B5	B6	B7	C1	C2	C3	C4	D
Hazardous waste disposed	kg	2.02E-07	1.10E-10	1.70E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-11	1.23E-10	2.76E-11	-2.55E-08
Non-hazardous waste disposed	kg	3.93E+00	5.27E-04	6.92E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.02E-05	1.68E-01	4.86E-01	-4.14E+00
Radioactive waste disposed	kg	1.08E-02	4.38E-06	3.98E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.66E-07	3.26E-05	1.85E-06	-7.70E-03

Output flow indicators

Indicator	Unit	Results per 1000mm MOVE IT PRO trimless system										
		A1 – A3	A4	A5	B1 – B5	B6	B7	C1	C2	C3	C4	D
Components for re-use	kg	6.73E-02	0.00E+00									
Material for recycling	kg	0.00E+00	0.00E+00	8.83E-02	0.00E+00	1.22E+00						
Materials for energy recovery	kg	0.00E+00	0.00E+00	7.86E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.75E-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

The MOVE IT PRO track trimless system are available in the sizes 1000mm, 2000mm, 3000mm, and 4000mm and can be customised to meet every special requirement. The length versions use the exact same materials and production technology. The results can be scaled for all different types. Those differences have been accounted for in the LCA. The results of the environmental performance indicators above can be scaled to the corresponding variants with the following conversion factors:

Scaling Factors for MOVE IT PRO trimless system

Variant	A1-A3	A4	A5	C1-C4	D
1000mm (reference product)	1	1	1	1	1
2000mm	2	2	2	2	2
3000mm	3	3	3	3	3
4000mm	4	4	4	4	4

Information related to the sectorial EPD

This EPD is not sectorial.

Differences from previous versions

This is the first version of the EPD.

EN 15193-1:2017+A1:2021 Energy performance of building – Energy requirements for lighting

EN 15804:2012+A2:2019/AC:2021 Sustainability of construction works. Environmental product declarations. Core rules for the product category of construction products.

European court of auditors. EU actions and existing challenges on electronic waste. Review No. 4. 2021

General Programme Instructions of the International EPD® System. Version 4.0.

ISO 14025:2006 - Environmental labels and declarations - Type III environmental declarations - Principles and procedures

ISO 14040:2021 Environmental management – Life cycle assessment – Principles and framework

ISO 14044:2021 Environmental management – Life cycle assessment – Requirements and guidelines

LCA Background Report. MOVE IT PRO track surface/suspended/trimless. 2024-10-30

LCA for Experts 10.8.0.14

PCR-ed4-EN-2021 09 062021. P.E.P. Association. [Product Category Rules for Electrical, Electronic and HVAC-R Products.](#)

Product category rules (PCR) 2019:14 Construction products version 1.3.4.. 2024-04-30. The EPD International. 2024