Environmental product declaration

in accordance with ISO 14025 and EN 15804+A2

Iris Sit & Stand desks collection with variants (Revolution Education-Y (700 x 600 mm), Revolution Education-T (700 x 600 mm), Revolution One-G (600 x 500 mm))

The Norwegian EPD Foundation

Owner of the declaration:
JSC Svenheim

Product:
Iris Sit & Stand desks collection with variants (Revolution Education-Y (700 x 600 mm), Revolution Education-T (700 x 600 mm), Revolution One-G (600 x 500 mm))

Declared unit:
1 pcs

This declaration is based on Product Category Rules:
CEN Standard EN 15804:2012+A2:2019 serves as core PCR
NPCR 026:2022 Part B for Furniture

Program operator:
The Norwegian EPD Foundation

Declaration number:
NEPD-11369-11315

Registration number:
NEPD-11369-11315

Issue date:
11.06.2025

Valid to:
11.06.2030

EPD software:
LCAno EPD generator ID: 1045234

General information

Product

Iris Sit & Stand desks collection with variants (Revolution Education-Y (700 x 600 mm), Revolution Education-T (700 x 600 mm), Revolution One-G (600 x 500 mm))

Owner of the declaration:

JSC Svenheim
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Program operator:

The Norwegian EPD Foundation
Post Box 5250 Majorstuen, 0303 Oslo, Norway
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Manufacturer:

JSC Svenheim

Declaration number:

NEPD-11369-11315

Place of production:

JSC Svenheim
Naujoji str.132
LT-62175 Alytus, Lithuania

This declaration is based on Product Category Rules:

CEN Standard EN 15804:2012+A2:2019 serves as core PCR
NPCR 026:2022 Part B for Furniture

Management system:

ISO 14001, Certificate No. 81858-2010-AE-LUT-FINAS ISO 9001, Certificate No. 81860-2010-AQ-LTU-FINAS Accredited unit: DNV Certification OY/AB, Finland

Statement of liability:

The owner of the declaration shall be liable for the underlying information and evidence. EPD Norway shall not be liable with respect to manufacturer information, life cycle assessment data and evidences.

Organisation no:

LT100004040014

Declared unit:

1 pcs Iris Sit & Stand desks collection with variants (Revolution Education-Y (700 x 600 mm), Revolution Education-T (700 x 600 mm), Revolution One-G (600 x 500 mm))

Issue date:

11.06.2025

Declared unit (cradle to gate) with option:

A1-A3, A4, A5, C1, C2, C3, C4, D

Valid to:

11.06.2030

Year of study:

2025

Functional unit:

Iris Sit&Stand desks collection is stylish and flexible height-adjustable frames with gas lift. The serie consist of 3 different models perfect for education settings and various other environments. The quick change between standing and sitting positions gives You the flexible and ergonomic workplace. The size of desk is large enough to fit a laptop, a notepad, a computer mouse and even a table lamp. The height-adjustable tables are powered by gas so, You are independent to place it wherever You want.

Comparability:

EPD of construction products may not be comparable if they not comply with EN 15804 and seen in a building context.

General information on verification of EPD from EPD tools:

Independent verification of data, other environmental information and the declaration according to ISO 14025:2010, § 8.1.3 and § 8.1.4. Verification of each EPD is made according to EPD-Norway's guidelines for verification and approval requiring that tools are i) integrated into the company's environmental management system, ii) the procedures for use of the EPD tool are approved by EPD-Norway, and iii) the process is reviewed annually by an independent third party verifier. See Appendix G of EPD-Norway's General Programme Instructions for further information on EPD tools

Development and verification of EPD:

The declaration is created using EPD tool lca.tools ver EPD2022.03, developed by LCA.no. The EPD tool is integrated in the company's management system, and has been approved by EPD Norway.

Developer of EPD: Aiste Vieraityte

Reviewer of company-specific input data and EPD: Aiste Vieraityte

Verification of EPD tool:

Approved:

Independent third party verification of the EPD tool, background data and test-EPD in accordance with EPDNorway's procedures and guidelines for verification and approval of EPD tools.

Third party verifier:

Elisabet Amat, GREENIZE projects

(no signature required)

Håkon Hauan, CEO EPD-Norge

Product

Product description:

Iris Revolution Education-Y is a lightweight and flexible height-adjustable desk designed with characteristic Y-shaped legs. The size of desk (700 x 600mm) is large enough to fit a laptop, a notepad, a computer mouse and a table lamp. The tabletop can be produced from HPL or MFC in 6 differents colors (white, grey, amber oak, ash, beech, birch). The work desk will always have straight 2 mm ABS edgeband matched to tabletop decor. Leg system can be in white and black colors. The height is adjustable by the gaslift system, the stroke is 450mm (695-1145mm ± 5mm) . The max load capacity on the desk is 15kg. The width of system frame - 626mm (+35mm lever).

Product specification

Iris Sit & Stand Revolution Education-Y, MFC tabletop 700x600 mm, adj. height (680 mm - 1120 mm ± 5 mm), gas-powered frame.

Materials	kg	%	Recycled share in material (kg)	Recycled share in material (%)
Desk frame	13,10	72,32	6,039	46,099
Glue for wood	0,011	0,063	0,00	0,00
Plastic - Acrylonitrile butadiene styrene (ABS)	0,091	0,50	0,00	0,00
Wood - Chipboard	4,91	27,10	0,00	0,00
Total	18,11	100,00	6,04	

Packaging	kg	%	Recycled share in material (kg)	Recycled share in material (%)
Packaging - Cardboard	0,03	23,81	0,00	0,00
Recycled cardboard	0,10	76,19	0,10	100,00
Total incl. packaging	18,24	100,00	6,14	

Technical data:

Total weight 18,1 kg.

Market:

Europe

Reference service life, product

15

Reference service life, building

LCA: Calculation rules

Declared unit:

1 pcs Iris Sit & Stand desks collection with variants (Revolution Education-Y (700 x 600 mm), Revolution Education-T (700 x 600 mm), Revolution One-G (600 x 500 mm))

Cut-off criteria:

All major raw materials and all the essential energy is included. The production processes for raw materials and energy flows with very small amounts (less than 1%) are not included. These cut-off criteria do not apply for hazardous materials and substances.

Allocation:

The allocation is made in accordance with the provisions of EN 15804. Incoming energy and water and waste production in-house is allocated equally among all products through mass allocation. Effects of primary production of recycled materials is allocated to the main product in which the material was used. The recycling process and transportation of the material is allocated to this analysis.

Data quality:

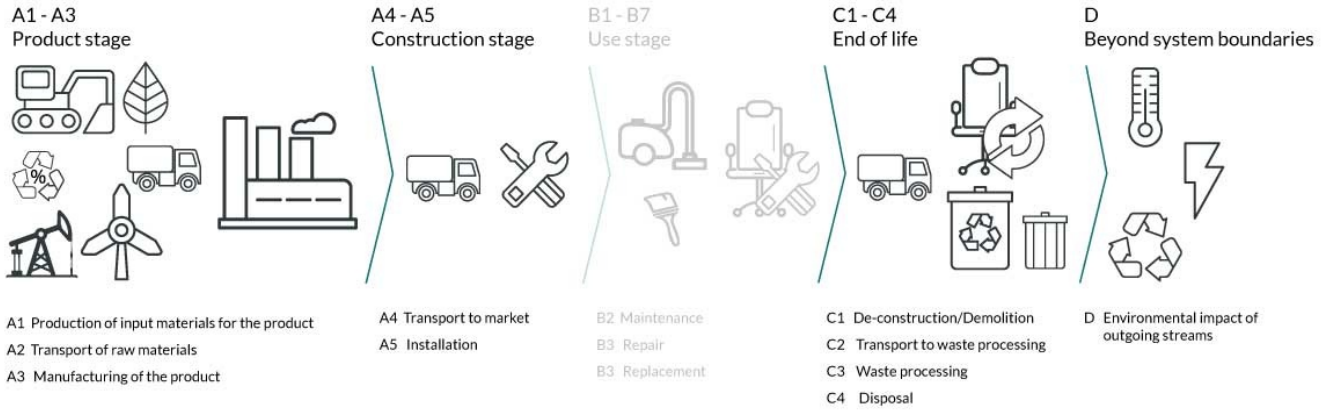
Specific data for the product composition are provided by the manufacturer. They represent the production of the declared product and were collected for EPD development in the year of study. Background data is based on registered EPDs according to EN 15804, Ostfold Research databases, ecoinvent and other LCA databases. The data quality of the raw materials in A1 is presented in the table below.

Materials	Source	Data quality	Year
Desk frame	HUB-1741	EPD	2023
Glue for wood	ecoinvent 3.6	Database	2019
Packaging - Cardboard	Modified ecoinvent 3.6	Database	2019
Plastic - Acrylonitrile butadiene styrene (ABS)	ecoinvent 3.6	Database	2019
Recycled cardboard	Modified ecoinvent 3.6	Database	2019
Wood - Chipboard	ecoinvent 3.6	Database	2019

System boundaries (X=included, MND=module not declared, MNR=module not relevant)

Product stage			Construction installation stage		Use stage							End of life stage				Beyond the system boundaries
Raw materials	Transport	Manufacturing	Transport	Assembly	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	De-construction demolition	Transport	Waste processing	Disposal	Reuse-Recovery-Recycling-potential
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	MND	MND	X	X	X	X	X

System boundary:



Additional technical information:

Further information can be found at https://svenheim.no/.

LCA: Scenarios and additional technical information

The following information describe the scenarios in the different modules of the EPD.

Transport from production place to user (A4)	Capacity utilisation (incl. return) %	Distance (km)	Fuel/Energy Consumption	Unit	Value (Liter/tonne)
Ship, Coastal Barge (km)	71,0 %	490	0,011	l/tkm	5,39
Truck, 16-32 tonnes, EURO 6 (km)	36,7 %	1426	0,043	l/tkm	61,32

Assembly (A5)	Unit	Value			
Waste, packaging, cardboard, 100 % recycled, to average treatment (kg)	kg	0,096			
Waste, packaging, corrugated board box, 0 % recycled, to average treatment (kg)	kg	0,030			

Transport to waste processing (C2)	Capacity utilisation (incl. return) %	Distance (km)	Fuel/Energy Consumption	Unit	Value (Liter/tonne)
Truck, 16-32 tonnes, EURO 6 (km)	36,7 %	85	0,043	l/tkm	3,66

Waste processing (C3)	Unit	Value			
Waste treatment per kg Wood, incineration with fly ash extraction (kg)	kg	4,91			
Waste treatment per kg Hazardous waste, incineration (kg)	kg	0,011			
Waste treatment per kg Scrap steel, incineration with fly ash extraction (kg)	kg	20,20			
Waste, materials to recycling (kg)	kg	6,85			

Disposal (C4)	Unit	Value			
Landfilling of ashes from incineration of Hazardous waste, from incineration (kg)	kg	0,020			
Landfilling of ashes from incineration of Wood, process per kg ashes and residues (kg)	kg	0,060			
Landfilling of ashes and residues from incineration of Scrap steel (kg)	kg	13,34			

Benefits and loads beyond the system boundaries (D)	Unit	Value			
Substitution of primary steel with net scrap (kg)	kg	2,40			
Substitution of thermal energy, district heating, in Norway (MJ)	MJ	54,97			
Substitution of electricity, in Norway (MJ)	MJ	3,63			

LCA: Results

The LCA results are presented below for the declared unit defined on page 2 of the EPD document.

Environmental impact										
	Indicator	**Unit**	A1-A3	A4	A5	C1	C2	C3	C4	D
	GWP-total	kg CO_2 -eq	4,16E+01	4,64E+00	2,16E-01	0	2,51E-01	8,44E+00	1,55E-01	-2,98E+00
	GWP-fossil	kg CO_2 -eq	4,99E+01	4,63E+00	2,04E-03	0	2,51E-01	1,80E-01	1,55E-01	-2,97E+00
	GWP-biogenic	kg CO_2 -eq	-8,38E+00	2,07E-03	2,14E-01	0	1,04E-04	8,26E+00	1,14E-04	-2,12E-03
	GWP-luluc	kg CO_2 -eq	8,50E-02	2,27E-03	6,74E-07	0	8,94E-05	4,30E-05	4,55E-05	-1,22E-02
	ODP	kg CFC11 -eq	3,94E-06	1,03E-06	4,30E-10	0	5,69E-08	1,70E-08	4,64E-08	-2,32E-02
	AP	mol H+ -eq	2,64E-01	1,63E-02	9,65E-06	0	7,22E-04	1,50E-03	1,06E-03	-1,58E-02
	EP-FreshWater	kg P -eq	2,17E-03	3,89E-05	1,67E-08	0	2,01E-06	4,78E-06	1,52E-06	-1,91E-04
	EP-Marine	kg N -eq	1,24E-01	4,19E-03	3,19E-06	0	1,43E-04	6,36E-04	3,78E-04	-3,58E-03
	EP-Terrestial	mol N -eq	5,70E-01	4,65E-02	3,46E-05	0	1,60E-03	6,83E-03	4,19E-03	-3,71E-02
	POCP	kg NMVOC -eq	2,20E-01	1,54E-02	9,93E-06	0	6,12E-04	1,85E-03	1,21E-03	-1,58E-02
	ADP-minerals&metals[1]	kg Sb-eq	8,62E-04	1,20E-04	4,96E-08	0	6,94E-06	9,72E-07	2,59E-06	-4,89E-05
	ADP-fossil[1]	MJ	6,67E+02	6,91E+01	2,85E-02	0	3,80E+00	1,55E+00	3,44E+00	-2,69E+01
	WDP[1]	m^3	5,91E+02	7,03E+01	3,61E-02	0	3,68E+00	4,98E+00	7,43E+00	8,07E+01

GWP-total = Global Warming Potential total; 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

"Reading example: 9,0 E-03 = 9,0*10-3 = 0,009"
*INA Indicator Not Assessed

1. The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high or as there is limited experienced with the indicator

Remarks to environmental impacts

Additional environmental impact indicators

Indicator		Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
	PM	Disease incidence	4,24E-06	2,67E-07	1,42E-10	0	1,54E-08	4,35E-08	1,94E-08	-3,79E-07
	IRP[2]	kgBq U235 -eq	8,72E+00	3,03E-01	1,22E-04	0	1,66E-02	4,24E-03	1,38E-02	-1,96E-02
	ETP-fw[1]	CTUe	1,85E+03	5,13E+01	3,80E-02	0	2,82E+00	9,20E+00	2,07E+00	-1,73E+02
	HTP-c[1]	CTUh	2,55E-07	0,00E+00	1,00E-12	0	0,00E+00	1,15E-09	7,50E-11	-1,32E-08
	HTP-nc[1]	CTUh	1,37E-06	5,16E-08	4,70E-11	0	3,08E-09	1,33E-08	2,03E-09	2,53E-07
	SQP[1]	dimensionless	7,33E+02	4,87E+01	1,91E-02	0	2,66E+00	3,56E-01	7,49E+00	-3,21E+01

PM = Particulate Matter emissions; IRP = Ionizing radiation – human health; ETP-fw = Eco toxicity – freshwater; HTP-c = Human toxicity – cancer effects; HTP-nc = Human toxicity – non cancer effects; SQP = Soil Quality (dimensionless)

"Reading example: 9,0 E-03 = 9,0*10-3 = 0,009"
*INA Indicator Not Assessed

1. The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high or as there is limited experienced with the indicator
2. 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.

Resource use

Indicator		Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
	PERE	MJ	1,60E+02	1,05E+00	4,69E-04	0	5,44E-02	8,33E-02	6,66E-02	-3,00E+01
	PERM	MJ	6,71E+01	0,00E+00	-1,04E+00	0	0,00E+00	-4,37E+01	0,00E+00	0,00E+00
	PERT	MJ	2,27E+02	1,05E+00	-1,04E+00	0	5,44E-02	-4,36E+01	6,66E-02	-3,00E+01
	PENRE	MJ	6,46E+02	6,91E+01	2,85E-02	0	3,80E+00	1,55E+00	3,44E+00	-2,69E+01
	PENRM	MJ	1,38E+01	0,00E+00	0,00E+00	0	0,00E+00	-5,30E-01	0,00E+00	0,00E+00
	PENRT	MJ	6,60E+02	6,91E+01	2,85E-02	0	3,80E+00	1,02E+00	3,44E+00	-2,69E+01
	SM	kg	6,14E+00	0,00E+00	0,00E+00	0	0,00E+00	0,00E+00	0,00E+00	0,00E+00
	RSF	MJ	8,27E-01	4,13E-02	1,56E-05	0	1,95E-03	1,72E-03	1,72E-03	9,08E-02
	NRSF	MJ	1,26E-01	1,37E-01	6,42E-05	0	6,96E-03	0,00E+00	9,53E-02	1,12E+00
	FW	m^3	5,38E-01	7,80E-03	1,35E-05	0	4,06E-04	2,10E-03	3,14E-03	-3,95E-02

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 resources; SM = Use of secondary materials; RSF = Use of renewable secondary fuels; NRSF = Use of non-renewable secondary fuels; FW = Net use of fresh water

"Reading example: 9,0 E-03 = 9,0*10-3 = 0,009"
*INA Indicator Not Assessed

End of life - Waste

Indicator		Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
	HWD	kg	1,31E+01	3,64E-03	0,00E+00	0	1,96E-04	0,00E+00	1,33E+01	-1,40E-02
	NHWD	kg	7,67E+01	3,12E+00	1,26E-01	0	1,85E-01	1,14E-02	1,11E-01	-1,19E+00
	RWD	kg	5,19E-03	4,70E-04	0,00E+00	0	2,59E-05	0,00E+00	2,08E-05	-1,65E-05

HWD = Hazardous waste disposed; NHWD = Non-hazardous waste disposed; RWD = Radioactive waste disposed

"Reading example: 9,0 E-03 = 9,0*10-3 = 0,009"
*INA Indicator Not Assessed

End of life - Output flow

Indicator		Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
	CRU	kg	0,00E+00	0,00E+00	0,00E+00	0	0,00E+00	0,00E+00	0,00E+00	0,00E+00
	MFR	kg	7,83E-01	0,00E+00	1,17E-01	0	0,00E+00	6,85E+00	0,00E+00	0,00E+00
	MER	kg	3,95E-01	0,00E+00	1,72E-07	0	0,00E+00	2,51E+01	0,00E+00	0,00E+00
	EEE	MJ	2,64E-01	0,00E+00	7,21E-03	0	0,00E+00	3,97E+00	0,00E+00	0,00E+00
	EET	MJ	4,00E+00	0,00E+00	1,09E-01	0	0,00E+00	6,01E+01	0,00E+00	0,00E+00

CRU = Components for re-use; MFR = Materials for recycling; MER = Materials for energy recovery; EEE = Exported energy electrical; EET = Exported energy thermal

"Reading example: 9,0 E-03 = 9,0*10-3 = 0,009"
*INA Indicator Not Assessed

Biogenic Carbon Content

Indicator	Unit	At the factory gate
Biogenic carbon content in product	kg C	2,25E+00
Biogenic carbon content in accompanying packaging	kg C	5,83E-02

Note: 1 kg biogenic carbon is equivalent to 44/12 kg CO2

Additional requirements

Greenhouse gas emissions from the use of electricity in the manufacturing phase

National production mix from import, low voltage (production of transmission lines, in addition to direct emissions and losses in grid) of applied electricity for the manufacturing process (A3).

Electricity mix	Source	Amount	Unit
Electricity, European average (kWh)	ecoinvent 3.6	428,03	g CO2-eq/kWh

Dangerous substances

The product contains no substances given by the REACH Candidate list.

Indoor environment

Additional Environmental Information

Key Environmental Indicators

Key environmental indicators	Unit	A1-A3	A4	A1-C4	A1-D
GWPtotal	kg CO_2 -eq	41,60	4,64	55,30	52,32
Total energy consumption	MJ	806,32	70,34	885,79	830,18
Amount of recycled materials	%	33,63			

Additional environmental impact indicators required in NPCR Part A for construction products									
Indicator	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
GWPIOBC	kg CO_2 -eq	5,02E+01	4,64E+00	2,04E-03	0	2,51E-01	1,81E-01	1,55E-01	-4,30E+00

GWP-IOBC: Global warming potential calculated according to the principle of instantaneous oxidation. In order to increase the transparency of biogenic carbon contribution to climate impact, the indicator GWP-IOBC is required as it declares climate impacts calculated according to the principle of instantaneous oxidation. GWP-IOBC is also referred to as GWP-GHG in context to Swedish public procurement legislation.

Variants and Options

Key environmental indicators (A1-A3) for variants of this EPD				
Variants	Weight (kg)	GWPtotal (kg CO_2 -eq)	Total energy consumption (MJ)	Amount of recycled materials (%)
Iris Sit & Stand Revolution Education-T, MFC tabletop 700 x 600 mm, adj. height, gas lift system	18,30	42,30	816,85	33,77
Iris Sit & Stand Revolution Education-T, HPL tabletop 700 x 600 mm, adj. height, gas lift system	19,00	43,11	850,46	33,21
Iris Sit & Stand Revolution One-G, MFC tabletop 600 x 500 mm, adj. height, gas lift system	13,10	30,35	585,31	33,72
Iris Sit & Stand Revolution Education-Y, HPL tbaletop 700 x 600 mm, adj. height, gas lift system	18,80	42,41	839,93	33,08
Iris Sit & Stand Revolution One-G, HPL tabletop 600 x 500 mm, adj. height, gas lift system	13,60	30,94	609,59	33,17

Bibliography

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ISO 14044:2006 Environmental management - Life cycle assessment - Requirements and guidelines.
EN 15804:2012+A2:2019 Environmental product declaration - Core rules for the product category of construction products.
ISO 21930:2017 Sustainability in buildings and civil engineering works - Core rules for environmental product declarations of construction products.
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NPCR Part A: Construction products and services. Ver. 2.0. March 2021, EPD-Norge.
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ECO PLATFORM EPD VERIFIED	ECO Platform ECO Portal	web: web:	www.eco-platform.org ECO Portal