epd-norge
Global program operatør

Environmental product declaration

in accordance with ISO 14025 and EN 15804+A2

Choice desk HPL

EDSBYN

The Norwegian EPD Foundation

Owner of the declaration:
AB Edsbyverken

Product:
Choice desk HPL

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-8220-7880-EN

Registration number:

NEPD-8220-7880-EN

Issue date: 22.11.2024

Valid to: 22.11.2029

EPD software:
LCAno EPD generator ID: 668866

General information

Product

Choice desk HPL

Owner of the declaration:

AB Edsbyverken
Contact person: Maria Olsson
Phone:
e-mail: maria.olsson@edsbyn.com

Program operator:

The Norwegian EPD Foundation
Post Box 5250 Majorstuen, 0303 Oslo, Norway
Phone: +47 977 22 020
web: www.epd-norge.no

Manufacturer:

AB Edsbyverken

Declaration number:

NEPD-8220-7880-EN

Place of production:

AB Edsbyverken
Karlsvägen 2
828 32 Edsbyn, Sweden

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, ISO 9001

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:

556040-0755

Declared unit:

1 pcs Choice desk HPL

Issue date:

22.11.2024

Declared unit (cradle to gate) with option:

A1-A3,A4,A5,B2,B3,B4,C1,C2,C3,C4,D

Valid to:

22.11.2029

Year of study:

2024

Functional unit:

Regardless of the office environment, way of working or personal preferences, there is a Choice Desk that fits. Choice is a minimalist, durable and affordable desk that, with its flexibility and scalability, always meets the customer's needs.

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: Jonathan Liverstad

Reviewer of company-specific input data and EPD: Maria Olsson

Verification of EPD tool:

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)

Approved:

Håkon Hauan
Managing Director of EPD-Norway

Product

Product description:

Tabletop with a core of 22 mm chipboard (laminate) or 22 mm MDF (other surface materials). No corner radius. ABS edge strip in the same colour as the tabletop when choosing edge profile with edge strip. When selecting Choice bevel is the front side bevelled, the other sides have straight edges. Cable tray and accessories to selected cut-out has to be ordered separately. https://www.edsbyn.com/products/test-choice-kategori/desk/

Product specification

Office furniture, tabletop 1400x800x22 mdf core with a surface layer of HPL.

Materials	kg	%	Recycled share in material (kg)	Recycled share in material (%)
Glue for wood	0,50	2,39	0,00	0,00
High pressure laminate - HPL thin	2,12	10,14	0,51	24,07
Plastic - Acrylonitrile butadiene styrene (ABS)	0,13	0,63	0,00	0,00
Wood - Medium Density Fibreboard (MDF)	18,14	86,84	0,00	0,00
Total	20,89	100,00	0,51	

Packaging	kg	%	Recycled share in material (kg)	Recycled share in material (%)
Packaging - Plastic	0,01	2,08	0,00	0,00
Recycled cardboard	0,47	97,92	0,47	100,00
Total incl. packaging	21,37	100,00	0,98	

Technical data:

Möbelfakta certified product.

Market:

Europe.

Reference service life, product

5 years warranty. Depending on chosen surface material and maintenance of the product the RSL varies from 5 to 10+ years.

Reference service life, building

LCA: Calculation rules

Declared unit:

1 pcs Choice desk HPL

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:

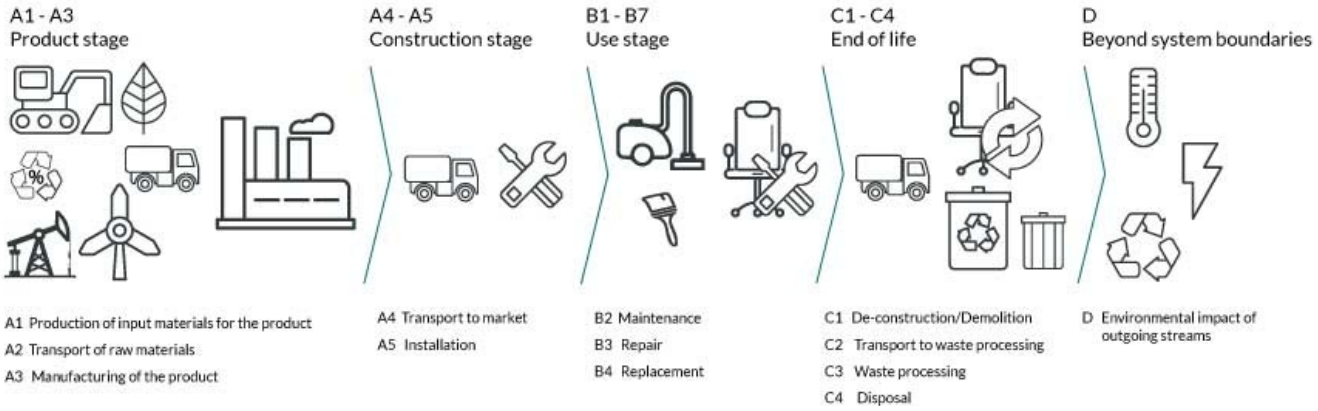
Specific data for the product composition are provided by the manufacturer. They represent the production of the declared product and were collected for EPD development in the year of study. Background data is based on registered EPDs according to EN 15804, Ostfold Research databases, ecoinvent and other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

Materials	Source	Data quality	Year
Glue for wood	ecoinvent 3.6	Database	2019
High pressure laminate - HPL thin	EPD-ICL-20220238-CBE1-EN	EPD	2021
Packaging - Plastic	ecoinvent 3.6	Database	2019
Plastic - Acrylonitrile butadiene styrene (ABS)	ecoinvent 3.6	Database	2019
Recycled cardboard	Modified ecoinvent 3.6	Database	2019
Wood - Medium Density Fibreboard (MDF)	EPD-NIBE-20210326-18330	EPD	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	X	X	X	MND	MND	MND	X	X	X	X	X

System boundary:



Additional technical information:

During packaging of our desks we use corner protection (4 pieces) made of Polypropylene (PP). These details weighs 14 grams each and are not included in the LCA calculation.

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)
Truck, 16-32 tonnes, EURO 6 (km)	36,7 %	300	0,043	l/tkm	12,90

Assembly (A5)	Unit	Value			
Waste, packaging, plastic tape, to average treatment (kg)	kg	0,01			
Waste, packaging, cardboard, 100 % recycled, to average treatment (kg)	kg	0,47			

Maintenance (B2)	Unit	Value			
Water, tap water (m3)	m3/DU	0,78			

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 %	50	0,043	l/tkm	2,15

Waste processing (C3)	Unit	Value			
Waste treatment per kg Hazardous waste, incineration (kg)	kg	0,50			
Waste treatment per kg Non-hazardous waste, incineration with fly ash extraction - C3 (kg)	kg	2,12			
Waste treatment per kg Plastics, Mixture, municipal incineration with fly ash extraction (kg)	kg	0,13			
Waste treatment per kg Wood, incineration with fly ash extraction (kg)	kg	18,14			

Disposal (C4)	Unit	Value			
Landfilling of ashes from incineration of Hazardous waste, from incineration (kg)	kg	0,09			
Landfilling of ashes from incineration of Non-hazardous waste, process per kg ashes and residues - C4 (kg)	kg	0,50			
Landfilling of ashes from incineration of Plastics, Mixture, municipal incineration with fly ash extraction, process per kg ashes and residues - C4 (kg)	kg	0,00			
Landfilling of ashes from incineration of Wood, process per kg ashes and residues (kg)	kg	0,21			

Benefits and loads beyond the system boundaries (D)	Unit	Value			
Substitution of electricity, in Norway (MJ)	MJ	14,08			
Substitution of thermal energy, district heating, in Norway (MJ)	MJ	212,97			

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	B2	B3
	GWP-total	kg CO_2 -eq	-1,40E+01	1,05E+00	8,06E-01	2,69E-01	0
	GWP-fossil	kg CO_2 -eq	1,95E+01	1,05E+00	8,40E-03	2,67E-01	0
	GWP-biogenic	kg CO_2 -eq	-3,38E+01	4,33E-04	7,98E-01	1,68E-03	0
	GWP-luluc	kg CO_2 -eq	1,41E-01	3,73E-04	2,58E-06	4,35E-04	0
	ODP	kg CFC11 -eq	3,27E-06	2,37E-07	1,65E-09	2,37E-08	0
	AP	mol H+ -eq	7,62E-02	3,01E-03	3,70E-05	1,56E-03	0
	EP-FreshWater	kg P -eq	6,39E-04	8,37E-06	6,41E-08	2,14E-05	0
	EP-Marine	kg N -eq	1,79E-02	5,95E-04	1,28E-05	2,48E-04	0
	EP-Terrestial	mol N -eq	2,05E-01	6,66E-03	1,32E-04	2,88E-03	0
	POCP	kg NMVOC -eq	6,26E-02	2,55E-03	3,82E-05	9,05E-04	0
	ADP-minerals&metals[1]	kg Sb-eq	2,95E-04	2,89E-05	1,89E-07	7,48E-06	0
	ADP-fossil[1]	MJ	5,38E+02	1,58E+01	1,10E-01	4,57E+00	0
	WDP[1]	m^3	1,65E+04	1,53E+01	1,46E-01	8,18E+01	0

Indicator		**Unit**	B4	C1	C2	C3	C4	D
	GWP-total	kg CO_2 -eq	0	0	1,75E-01	3,63E+01	5,16E-02	-1,28E+00
	GWP-fossil	kg CO_2 -eq	0	0	1,75E-01	6,60E+00	5,16E-02	-1,23E+00
	GWP-biogenic	kg CO_2 -eq	0	0	7,22E-05	2,97E+01	2,12E-05	-2,55E-03
	GWP-luluc	kg CO_2 -eq	0	0	6,21E-05	3,98E-04	5,84E-06	-4,25E-02
	ODP	kg CFC11 -eq	0	0	3,95E-08	1,79E-07	3,53E-09	-8,99E-02
	AP	mol H+ -eq	0	0	5,02E-04	5,24E-03	1,25E-04	-1,02E-02
	EP-FreshWater	kg P -eq	0	0	1,39E-06	3,36E-05	5,33E-07	-1,10E-04
	EP-Marine	kg N -eq	0	0	9,92E-05	2,00E-03	3,54E-05	-3,33E-03
	EP-Terrestial	mol N -eq	0	0	1,11E-03	2,12E-02	4,08E-04	-3,60E-02
	POCP	kg NMVOC -eq	0	0	4,25E-04	5,33E-03	1,14E-04	-9,92E-03
	ADP-minerals&metals[1]	kg Sb-eq	0	0	4,82E-06	6,11E-06	1,51E-07	-1,23E-05
	ADP-fossil[1]	MJ	0	0	2,64E+00	7,31E+00	3,14E-01	-1,77E+01
	WDP[1]	m^3	0	0	2,55E+00	7,34E+00	5,81E+00	-2,20E+02

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	B2	B3
	PM	Disease incidence	1,05E-06	6,41E-08	5,49E-10	1,31E-08	0
	IRP[2]	kgBq U235 -eq	7,18E+00	6,92E-02	4,70E-04	3,16E-02	0
	ETP-fw[1]	CTUe	3,76E+02	1,17E+01	1,45E-01	4,95E+00	0
	HTP-c[1]	CTUh	1,14E-08	0,00E+00	4,00E-12	7,39E-10	0
	HTP-nc[1]	CTUh	2,92E-07	1,28E-08	1,81E-10	1,64E-08	0
	SQP[1]	dimensionless	2,90E+03	1,11E+01	7,71E-02	1,28E+00	0

Indicator		Unit	B4	C1	C2	C3	C4	D
	PM	Disease incidence	0	0	1,07E-08	5,89E-08	1,17E-09	-6,16E-07
	IRP[2]	kgBq U235 -eq	0	0	1,15E-02	2,80E-02	1,62E-03	-1,13E-01
	ETP-fw[1]	CTUe	0	0	1,96E+00	3,97E+01	7,43E-01	-9,60E+01
	HTP-c[1]	CTUh	0	0	0,00E+00	2,12E-09	3,90E-11	-1,76E-09
	HTP-nc[1]	CTUh	0	0	2,14E-09	4,72E-08	1,43E-09	-9,21E-08
	SQP[1]	dimensionless	0	0	1,85E+00	2,27E+00	8,73E-01	-1,18E+02

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	B2	B3
	PERE	MJ	5,50E+02	2,27E-01	1,83E-03	6,21E-01	0
	PERM	MJ	2,63E+02	0,00E+00	-2,75E+00	0,00E+00	0
	PERT	MJ	8,13E+02	2,27E-01	-2,75E+00	6,21E-01	0
	PENRE	MJ	5,00E+02	1,58E+01	1,10E-01	4,57E+00	0
	PENRM	MJ	5,77E+01	0,00E+00	-3,66E-01	0,00E+00	0
	PENRT	MJ	5,58E+02	1,58E+01	-2,56E-01	4,57E+00	0
	SM	kg	1,05E+00	0,00E+00	0,00E+00	0,00E+00	0
	RSF	MJ	4,39E-01	8,11E-03	6,02E-05	4,98E-02	0
	NRSF	MJ	1,12E+00	2,90E-02	2,45E-04	4,91E-02	0
	FW	m^3	3,81E-01	1,69E-03	5,19E-05	7,85E-01	0

Indicator		**Unit**	B4	C1	C2	C3	C4	D
	PERE	MJ	0	0	3,78E-02	9,81E-01	2,89E-02	-1,09E+02
	PERM	MJ	0	0	0,00E+00	-2,60E+02	0,00E+00	0,00E+00
	PERT	MJ	0	0	3,78E-02	-2,59E+02	2,89E-02	-1,09E+02
	PENRE	MJ	0	0	2,64E+00	7,53E+00	3,15E-01	-1,77E+01
	PENRM	MJ	0	0	0,00E+00	-4,67E+01	0,00E+00	0,00E+00
	PENRT	MJ	0	0	2,64E+00	-3,91E+01	3,15E-01	-1,77E+01
	SM	kg	0	0	0,00E+00	0,00E+00	0,00E+00	0,00E+00
	RSF	MJ	0	0	1,35E-03	2,20E-02	5,61E-04	-1,91E-02
	NRSF	MJ	0	0	4,83E-03	0,00E+00	6,85E-02	-6,47E+00
	FW	m^3	0	0	2,82E-04	9,84E-03	4,54E-04	-1,31E-01

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	B2	B3
	HWD	kg	9,52E-02	8,17E-04	0,00E+00	8,64E-04	0
	NHWD	kg	5,84E+00	7,70E-01	4,80E-01	5,55E-02	0
	RWD	kg	5,89E-03	1,08E-04	0,00E+00	2,68E-05	0

Indicator		Unit	B4	C1	C2	C3	C4	D
	HWD	kg	0	0	1,36E-04	0,00E+00	5,83E-01	-8,30E-04
	NHWD	kg	0	0	1,28E-01	2,62E+00	2,23E-01	-4,17E-01
	RWD	kg	0	0	1,80E-05	0,00E+00	1,25E-06	-9,24E-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	B2	B3
	CRU	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0
	MFR	kg	1,38E+00	0,00E+00	4,42E-01	0,00E+00	0
	MER	kg	2,49E+00	0,00E+00	1,14E-06	0,00E+00	0
	EEE	MJ	1,71E+00	0,00E+00	2,69E-02	0,00E+00	0
	EET	MJ	2,59E+01	0,00E+00	4,07E-01	0,00E+00	0

Indicator		Unit	B4	C1	C2	C3	C4	D
	CRU	kg	0	0	0,00E+00	0,00E+00	0,00E+00	0,00E+00
	MFR	kg	0	0	0,00E+00	0,00E+00	0,00E+00	0,00E+00
	MER	kg	0	0	0,00E+00	2,09E+01	0,00E+00	0,00E+00
	EEE	MJ	0	0	0,00E+00	1,28E+01	0,00E+00	0,00E+00
	EET	MJ	0	0	0,00E+00	1,94E+02	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	8,10E+00
Biogenic carbon content in accompanying packaging	kg C	2,50E-01

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, Sweden (kWh)	ecoinvent 3.6	54,94	g CO2-eq/kWh

Dangerous substances

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

Indoor environment

No effect on indoor environment.

Additional Environmental Information

Key Environmental Indicators

Key environmental indicators	Unit	A1-A3	A4	A1-C4	A1-D
GWPtotal	kg CO_2 -eq	-14,00	1,05	24,61	23,33
Total energy consumption	MJ	1051,62	16,10	1084,74	951,55
Amount of recycled materials	%	4,58			

Additional environmental impact indicators required in NPCR Part A for construction products						
Indicator	**Unit**	A1-A3	A4	A5	B2	B3
GWPIOBC	kg CO_2 -eq	1,97E+01	1,05E+00	8,40E-03	2,69E-01	0

Indicator	Unit	B4	C1	C2	C3	C4	D
GWPIOBC	kg CO_2 -eq	0	0	1,75E-01	4,32E+00	5,66E-02	-1,26E+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 (%)**
Choice desk 800x800 HPL	12,24	-7,84	603,94	4,59
Choice desk 1000x800 HPL	15,28	-9,89	753,13	4,61
Choice desk 1200x800 HPL	18,32	-11,94	901,89	4,57
Choice desk 1600x800 HPL	24,42	-16,02	1201,45	4,60
Choice desk 1800x800 HPL	27,45	-18,07	1350,25	4,57
Choice desk 2000x800 HPL	30,50	-20,12	1499,47	4,58
Choice desk 800x900 HPL	13,76	-8,87	678,54	4,56
Choice desk 1000x900 HPL	17,18	-11,18	846,13	4,60
Choice desk 1200x900 HPL	20,60	-13,50	1013,73	4,57
Choice desk 1400x900 HPL	24,02	-15,81	1181,32	4,59
Choice desk 1600x900 HPL	27,45	-18,10	1349,61	4,57
Choice desk 1800x900 HPL	30,87	-20,41	1517,19	4,59
Choice desk 2000x900 HPL	34,30	-22,74	1685,26	4,60

Bibliography

ISO 14025:2010 Environmental labels and declarations - Type III environmental declarations - Principles and procedures.
ISO 14044:2006 Environmental management - Life cycle assessment - Requirements and guidelines.
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epd-norge Global program operatør	**Program operator and publisher** The Norwegian EPD Foundation Post Box 5250 Majorstuen, 0303 Oslo, Norway	Phone: +47 977 22 020 e-mail: post@epd-norge.no web: www.epd-norge.no
EDSBYN	**Owner of the declaration:** AB Edsbyverken Karlsvägen 2, 828 32 Edsbyn, Sweden	Phone: e-mail: maria.olsson@edsbyn.com web: www.edsbyn.com
LCA.no	**Author of the Life Cycle Assessment** LCA.no AS Dokka 6A, 1671 Kråkerøy, Norway	Phone: +47 916 50 916 e-mail: post@lca.no web: www.lca.no
LCA.no	**Developer of EPD generator** LCA.no AS Dokka 6A, 1671 Kråkerøy, Norway	Phone: +47 916 50 916 e-mail: post@lca.no web: www.lca.no
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