



Environmental product declaration

in accordance with ISO 14025 and EN 15804+A2

Cup



EDSBYN

The Norwegian EPD Foundation

Owner of the declaration:

AB Edsbyverken

Product:

Cup

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-8793-8448

Registration number:

NEPD-8793-8448

Issue date: 23.01.2025

Valid to: 23.01.2030

EPD software:

LCAno EPD generator ID: 433361



General information

Product

Cup

Program operator:

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

Phone: +47 977 22 020 web: www.epd-norge.no

Declaration number:

NEPD-8793-8448

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

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.

Declared unit:

1 pcs Cup

Declared unit (cradle to gate) with option:

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

Functional unit:

This nomadic furniture, is built with a hollow cylinder in recycled cardboard and leftover material from Edsbyn's production. With a tactile metal handle in Swedish steel on the side, and an upholstered seat that can be combined in various colors, Cup is sure to add flavor to the room.

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

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)

Owner of the declaration:

AB Edsbyverken

Contact person: Maria Olsson

Phone

e-mail: maria.olsson@edsbyn.com

Manufacturer:

AB Edsbyverken

Place of production:

AB Edsbyverken Karlsvägen 2 828 32 Edsbyn, Sweden

Management system:

ISO 14001, ISO 9001

Organisation no:

556040-0755

Issue date:

23.01.2025

Valid to:

23.01.2030

Year of study:

2024

Comparability:

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

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: Maria Olsson

Reviewer of company-specific input data and EPD: Jonathan Liverstad

Approved:

Hakon Hauan

Managing Director of EPD-Norway



Product

Product description:

Cup Stool measures 455mm in height and 464 mm width including the handle. The tube are made of recycled paper and MDF, and the handle are made from swedish steel. There are several sustainable options regarding fabrics for upholstery in Edsbyns "Color & Trim".

Product specification

Cup - a portable stool for any open spaces when you need a break and a coffee.

Materials	kg	%	Recycled share in material (kg)	Recycled share in material (%)
Kraft paper - Unbleached	1,97	26,31	0,02	0,88
Plastic - Nylon (PA)	0,10	1,28	0,00	0,00
Textile - Wool	0,42	5,67	0,00	0,00
Wood - Medium Density Fibreboard (MDF)	4,14	55,38	0,00	0,00
Metal - Steel	0,50	6,62	0,00	0,00
Wood - Plywood	0,35	4,72	0,00	0,00
Total	7,47	100,00	0,02	

Packaging	kg	%	Recycled share in material (kg)	Recycled share in material (%)
Packaging - Plastic	0,20	20,00	0,00	0,00
Recycled cardboard	0,80	80,00	0,80	100,00
Total incl. packaging	8,47	100,00	0,82	

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 Cup

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:

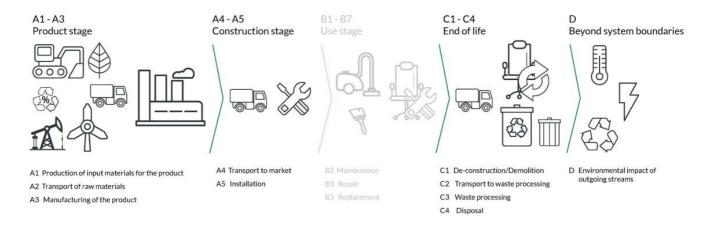
Specific data for the product composition are provided by the manufacturer. They represent the production of the declared product and were collected for EPD development in the year of study. Background data is based on registered EPDs according to EN 15804, Ostfold Research databases, ecoinvent and other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

		- n	.,
Materials	Source	Data quality	Year
Kraft paper - Unbleached	ecoinvent 3.6	Database	2019
Metal - Steel	ecoinvent 3.6	Database	2019
Packaging - Plastic	ecoinvent 3.6	Database	2019
Plastic - Nylon (PA)	ecoinvent 3.6	Database	2019
Recycled cardboard	Modified ecoinvent 3.6	Database	2019
Textile - Wool	Modified ecoinvent 3.6	Database	2019
Wood - Medium Density Fibreboard (MDF)	ecoinvent 3.6	Database	2019
Wood - Plywood	modified ecoinvent 3.6	Database	2019

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

Р	roduct stag	ge		uction on stage		Use stage End of life stage			Beyond the system boundaries							
Raw materials	Transport	Manufacturing	Transport	Assembly	Use	Maintenance	Repair	Replacement	Refurb ishment	Operational energy use	Operational water use	De- construction demolition	Transport	Waste processing	Disposal	Reuse-Recovery- Recycling-potential
A1	A2	A3	A4	A5	B1	B2	В3	B4	B5	В6	В7	C1	C2	C3	C4	D
Χ	Χ	Χ	Χ	Χ	MND	Χ	Χ	Χ	MND	MND	MND	Χ	Χ	Χ	Χ	X

System boundary:



Additional technical information:



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, cardboard, 100 % recycled, to average treatment (kg)	kg	0,80			
Waste, packaging, plastic film (LDPE), to average treatment - A5 (kg)	kg	0,20			
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 Wood, incineration with fly ash extraction (kg)	kg	4,49			
Waste, materials to recycling (kg)	kg	0,16			
Waste treatment per kg Scrap steel, incineration with fly ash extraction (kg)	kg	0,49			
Waste treatment per kg Plastics, Mixture, municipal incineration with fly ash extraction (kg)	kg	0,095			
Waste treatment per kg Paperboard, incineration with fly ash extraction - C3 (kg)	kg	1,96			
Waste treatment per kg Textile, incineration with fly ash extraction (kg)	kg	0,42			
Disposal (C4)	Unit	Value			
Landfilling of ashes from incineration of Wood, process per kg ashes and residues (kg)	kg	0,051			
Landfilling of ashes and residues from incineration of Scrap steel (kg)	kg	0,32			
Landfilling of ashes from incineration of Plastics, Mixture, municipal incineration with fly ash extraction, process per kg ashes and residues - C4 (kg)	kg	0,0033			
Landfilling of ashes from incineration of Paperboard, process per kg ashes and residues - C4 (kg)	kg	0,035			
Landfilling of ashes from incineration of Textile, soiled, process per kg ashes and residues (kg)	kg	0,021			
Benefits and loads beyond the system boundaries (D)	Unit	Value			
Substitution of thermal energy, district heating, in Norway (MJ)	MJ	79,62			
Substitution of electricity, in Norway (MJ)	MJ	5,26			
Substitution of primary steel with net scrap (kg)	kg	0,16			



LCA: Results

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

Environme	ental impact								
	Indicator		Unit		A1-A3	A4	A5	B2	В3
	GWP-total		kg CO ₂ -	eq	2,53E+01	4,15E-01	1,39E+00	0	0
	GWP-fossil		kg CO ₂ -e	eq	2,01E+01	4,15E-01	2,88E-02	0	0
	GWP-biogenic		kg CO ₂ -eq		2,81E+00	1,72E-04	1,36E+00	0	0
	GWP-Iuluc		kg CO ₂ -	eq	2,36E+00	1,48E-04	5,49E-06	0	0
٨	ODP		kg CFC11	-eq	1,78E-06	9,40E-08	3,68E-09	0	0
Œ.	AP		mol H+ -	eq	6,07E-01	1,19E-03	8,08E-05	0	0
	EP-FreshWater		kg P -ed	7	6,12E-03	3,32E-06	1,39E-07	0	0
	EP-Marine		kg N -ed	7	1,06E-01	2,36E-04	3,81E-05	0	0
	EP-Terrestial		mol N -e	eq	2,52E+00	2,64E-03	2,89E-04	0	0
	POCP		kg NMVOC	-eq	7,36E-02	1,01E-03	8,61E-05	0	0
	ADP-minerals&metals ¹		kg Sb-ed	9	3,56E-04	1,15E-05	3,99E-07	0	0
	ADP-fossil ¹		MJ		2,90E+02	6,28E+00	2,46E-01	0	0
%	WDP ¹	m^3			7,26E+03	6,07E+00	4,60E-01	0	0
(70)	WDF		m ^s		7,200+03	0,072100	4,00L 01	O	Ü
70	Indicator		Unit	B4	C1	C2	C3	C4	D
				B4 0		· ·			
	Indicator		Unit		C1	C2	C3	C4	D
	Indicator GWP-total		Unit kg CO ₂ -eq	0	C1 0	C2 6,92E-02	C3 1,20E+01	C4 8,40E-03	D -6,63E-01
	Indicator GWP-total GWP-fossil		Unit kg CO ₂ -eq kg CO ₂ -eq	0	C1 0 0	C2 6,92E-02 6,92E-02	C3 1,20E+01 3,43E-01	C4 8,40E-03 8,39E-03	D -6,63E-01 -6,46E-01
	Indicator GWP-total GWP-fossil GWP-biogenic		Unit kg CO ₂ -eq kg CO ₂ -eq kg CO ₂ -eq	0 0	C1 0 0	C2 6,92E-02 6,92E-02 2,86E-05	C3 1,20E+01 3,43E-01 1,17E+01	C4 8,40E-03 8,39E-03 7,83E-06	D -6,63E-01 -6,46E-01 -1,06E-03
	Indicator GWP-total GWP-fossil GWP-biogenic GWP-luluc	k	Unit kg CO ₂ -eq kg CO ₂ -eq kg CO ₂ -eq	0 0 0	0 0 0 0	C2 6,92E-02 6,92E-02 2,86E-05 2,46E-05	C3 1,20E+01 3,43E-01 1,17E+01 2,16E-05	C4 8,40E-03 8,39E-03 7,83E-06 1,82E-06	D -6,63E-01 -6,46E-01 -1,06E-03 -1,60E-02
	Indicator GWP-total GWP-fossil GWP-biogenic GWP-luluc ODP	k	Unit kg CO ₂ -eq kg CO ₂ -eq kg CO ₂ -eq g CFC11 -eq	0 0 0 0	C1 0 0 0 0 0	C2 6,92E-02 6,92E-02 2,86E-05 2,46E-05 1,57E-08	C3 1,20E+01 3,43E-01 1,17E+01 2,16E-05 1,10E-08	C4 8,40E-03 8,39E-03 7,83E-06 1,82E-06 1,63E-09	D -6,63E-01 -6,46E-01 -1,06E-03 -1,60E-02 -3,36E-02
	Indicator GWP-total GWP-fossil GWP-biogenic GWP-luluc ODP AP	k	Unit kg CO ₂ -eq kg CO ₂ -eq kg CO ₂ -eq g CFC11 -eq mol H+ -eq	0 0 0 0 0	C1 0 0 0 0 0	C2 6,92E-02 6,92E-02 2,86E-05 2,46E-05 1,57E-08 1,99E-04	C3 1,20E+01 3,43E-01 1,17E+01 2,16E-05 1,10E-08 1,35E-03	C4 8,40E-03 8,39E-03 7,83E-06 1,82E-06 1,63E-09 4,23E-05	D -6,63E-01 -6,46E-01 -1,06E-03 -1,60E-02 -3,36E-02 -4,72E-03
	Indicator GWP-total GWP-fossil GWP-biogenic GWP-luluc ODP AP EP-FreshWater	k	Unit kg CO ₂ -eq kg CO ₂ -eq kg CO ₂ -eq g CFC11 -eq mol H+ -eq	0 0 0 0 0 0	C1 0 0 0 0 0 0	C2 6,92E-02 6,92E-02 2,86E-05 2,46E-05 1,57E-08 1,99E-04 5,53E-07	C3 1,20E+01 3,43E-01 1,17E+01 2,16E-05 1,10E-08 1,35E-03 1,70E-06	C4 8,40E-03 8,39E-03 7,83E-06 1,82E-06 1,63E-09 4,23E-05 1,01E-07	D -6,63E-01 -6,46E-01 -1,06E-03 -1,60E-02 -3,36E-02 -4,72E-03 -5,24E-05
	Indicator GWP-total GWP-fossil GWP-biogenic GWP-luluc ODP AP EP-FreshWater EP-Marine	k	Wnit kg CO ₂ -eq kg CO ₂ -eq kg CO ₂ -eq g CFC11 -eq mol H+ -eq kg P -eq	0 0 0 0 0 0	C1 0 0 0 0 0 0 0	C2 6,92E-02 6,92E-02 2,86E-05 2,46E-05 1,57E-08 1,99E-04 5,53E-07 3,93E-05	C3 1,20E+01 3,43E-01 1,17E+01 2,16E-05 1,10E-08 1,35E-03 1,70E-06 6,26E-04	C4 8,40E-03 8,39E-03 7,83E-06 1,82E-06 1,63E-09 4,23E-05 1,01E-07 1,43E-05	D -6,63E-01 -6,46E-01 -1,06E-03 -1,60E-02 -3,36E-02 -4,72E-03 -5,24E-05 -1,43E-03
	Indicator GWP-total GWP-fossil GWP-biogenic GWP-luluc ODP AP EP-FreshWater EP-Marine EP-Terrestial	k	Wnit kg CO ₂ -eq kg CO ₂ -eq kg CO ₂ -eq g CFC11 -eq mol H+ -eq kg P -eq kg N -eq mol N -eq	0 0 0 0 0 0 0	C1 0 0 0 0 0 0 0	C2 6,92E-02 6,92E-02 2,86E-05 2,46E-05 1,57E-08 1,99E-04 5,53E-07 3,93E-05 4,40E-04	C3 1,20E+01 3,43E-01 1,17E+01 2,16E-05 1,10E-08 1,35E-03 1,70E-06 6,26E-04 6,58E-03	C4 8,40E-03 8,39E-03 7,83E-06 1,82E-06 1,63E-09 4,23E-05 1,01E-07 1,43E-05 1,60E-04	D -6,63E-01 -6,46E-01 -1,06E-03 -1,60E-02 -3,36E-02 -4,72E-03 -5,24E-05 -1,43E-03 -1,54E-02
	Indicator GWP-total GWP-fossil GWP-biogenic GWP-luluc ODP AP EP-FreshWater EP-Marine EP-Terrestial POCP	k	Wnit kg CO ₂ -eq kg CO ₂ -eq kg CO ₂ -eq g CFC11 -eq mol H+ -eq kg P -eq mol N -eq nMVOC -eq	0 0 0 0 0 0 0	C1 0 0 0 0 0 0 0 0	C2 6,92E-02 6,92E-02 2,86E-05 2,46E-05 1,57E-08 1,99E-04 5,53E-07 3,93E-05 4,40E-04 1,69E-04	C3 1,20E+01 3,43E-01 1,17E+01 2,16E-05 1,10E-08 1,35E-03 1,70E-06 6,26E-04 6,58E-03 1,62E-03	C4 8,40E-03 8,39E-03 7,83E-06 1,82E-06 1,63E-09 4,23E-05 1,01E-07 1,43E-05 1,60E-04 4,54E-05	D -6,63E-01 -6,46E-01 -1,06E-03 -1,60E-02 -3,36E-02 -4,72E-03 -5,24E-05 -1,43E-03 -1,54E-02 -4,63E-03

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

Remarks to environmental impacts

[&]quot;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



Additional env	ironmental impact ind	licators					
	Indicator	Unit	A1-A3	A4	A5	B2	В3
	PM	Disease incidence	4,87E-06	2,54E-08	1,26E-09	0	0
	IRP ²	kgBq U235 -eq	2,93E+00	2,74E-02	1,07E-03	0	0
	ETP-fw ¹	CTUe	7,64E+02	4,65E+00	3,04E-01	0	0
44. ****	HTP-c ¹	CTUh	6,24E-08	0,00E+00	9,00E-12	0	0
4	HTP-nc ¹	CTUh	4,18E-07	5,08E-09	3,62E-10	0	0
	SQP ¹	dimensionless	-1,98E+04	4,39E+00	2,35E-01	0	0

li li	ndicator	Unit	B4	C1	C2	C3	C4	D
	PM	Disease incidence	0	0	4,24E-09	1,31E-08	6,73E-10	-2,46E-07
	IRP ²	kgBq U235 -eq	0	0	4,57E-03	1,95E-03	5,36E-04	-4,15E-02
40	ETP-fw ¹	CTUe	0	0	7,75E-01	5,64E+00	1,29E-01	-4,62E+01
40.* *** <u>*</u>	HTP-c ¹	CTUh	0	0	0,00E+00	3,28E-10	6,00E-12	-1,55E-09
49° <u>B</u>	HTP-nc ¹	CTUh	0	0	8,47E-10	1,46E-08	1,94E-10	-1,51E-08
	SQP ¹	dimensionless	0	0	7,32E-01	1,45E-01	3,14E-01	-4,43E+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)

[&]quot;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	В3
r G	PERE		MJ	1,99E+02	8,98E-02	4,63E-03	0	0
	PERM		MJ	7,32E+01	0,00E+00	-4,68E+00	0	0
Ţ,	PERT		MJ	2,72E+02	8,98E-02	-4,68E+00	0	0
	PENRE		MJ	2,94E+02	6,28E+00	2,46E-01	0	0
4	PENRM		MJ	1,16E+01	0,00E+00	-8,49E+00	0	0
IA	PENRT		MJ	3,06E+02	6,28E+00	-8,25E+00	0	0
	SM		kg	8,18E-01	0,00E+00	0,00E+00	0	0
	RSF		MJ	4,25E-01	3,21E-03	1,42E-04	0	0
	NRSF		MJ	4,62E-01	1,15E-02	5,21E-04	0	0
%	FW		m ³	5,21E-01	6,71E-04	1,20E-04	0	0
	ndicator	Unit	B4	C1	C2	C3	C4	D
	PERE	MJ	0	0	1,50E-02	3,74E-02	4,07E-03	-4,09E+01
A					,	3,74L-0Z	4,07E-03	-4,09E+01
	PERM	MJ	0	0	0,00E+00	-6,85E+01	0,00E+00	0,00E+00
i i	PERM PERT	M1	0	0				
					0,00E+00	-6,85E+01	0,00E+00	0,00E+00
Ť.	PERT	MJ	0	0	0,00E+00 1,50E-02	-6,85E+01	0,00E+00 4,07E-03	0,00E+00 -4,09E+01
F.	PERT PENRE	МЛ	0	0	0,00E+00 1,50E-02 1,05E+00	-6,85E+01 -6,85E+01 8,77E-01	0,00E+00 4,07E-03 1,26E-01	0,00E+00 -4,09E+01 -8,16E+00
F.	PERT PENRE PENRM	M1 M1	0 0	0 0	0,00E+00 1,50E-02 1,05E+00 0,00E+00	-6,85E+01 -6,85E+01 8,77E-01 -3,06E+00	0,00E+00 4,07E-03 1,26E-01 0,00E+00	0,00E+00 -4,09E+01 -8,16E+00 0,00E+00
F. B La	PERT PENRE PENRM PENRT	M1 M1 M1	0 0 0 0	0 0 0	0,00E+00 1,50E-02 1,05E+00 0,00E+00 1,05E+00	-6,85E+01 -6,85E+01 8,77E-01 -3,06E+00 -2,19E+00	0,00E+00 4,07E-03 1,26E-01 0,00E+00 1,26E-01	0,00E+00 -4,09E+01 -8,16E+00 0,00E+00 -8,16E+00
	PERT PENRE PENRM PENRT SM	MJ MJ MJ kg	0 0 0 0 0	0 0 0 0	0,00E+00 1,50E-02 1,05E+00 0,00E+00 1,05E+00 0,00E+00	-6,85E+01 -6,85E+01 8,77E-01 -3,06E+00 -2,19E+00 0,00E+00	0,00E+00 4,07E-03 1,26E-01 0,00E+00 1,26E-01 0,00E+00	0,00E+00 -4,09E+01 -8,16E+00 0,00E+00 -8,16E+00 0,00E+00

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; 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		Uı	nit	A1-A3	A4	A5	B2	В3
	HWD	kg		9,04E-02	3,24E-04	0,00E+00	0	0	
	NHWD		k	g	3,88E+00	3,05E-01	1,00E+00	0	0
<u>\$</u>	RWD		k	g	1,72E-03	4,27E-05	0,00E+00	0	0
In	dicator		Unit	B4	C1	C2	C3	C4	D
ā	HWD		kg	0	0	5,39E-05	0,00E+00	3,91E-01	-1,27E-03
Ū	NHWD		kg	0	0	5,09E-02	0,00E+00	3,94E-02	-2,31E-01
8	RWD		kg	0	0	7,12E-06	0,00E+00	7,43E-07	-3,40E-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								
Ind	icator	Uni	t	A1-A3	A4	A5	B2	В3
@▷	CRU	kg		0,00E+00	0,00E+00	0,00E+00	0	0
&>	MFR	kg		1,56E-01	0,00E+00	8,46E-01	0	0
DF	MER	kg		2,69E-01	0,00E+00	1,11E-05	0	0
50	EEE	MJ		2,64E-01	0,00E+00	4,58E-02	0	0
▶	EET	MJ		3,99E+00	0,00E+00	6,92E-01	0	0
Indicato	or	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	1,68E-01	0,00E+00	0,00E+00
DF	MER	kg	0	0	0,00E+00	7,47E+00	0,00E+00	0,00E+00
₹ D	EEE	MJ	0	0	0,00E+00	5,19E+00	0,00E+00	0,00E+00
D	EET	МЈ	0	0	0,00E+00	7,85E+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	3,01E+00					
Biogenic carbon content in accompanying packaging	kg C	3,70E-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-eg/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	25,31	0,42	39,20	38,53
Total energy consumption	MJ	494,34	6,38	503,11	451,83
Amount of recycled materials	%	9,65			

Additional environmental impact indicators required in NPCR Part A for construction products							
Indicator	Unit		A1-A3	A4	A5	B2	В3
GWPIOBC	kg CO ₂ -eq		3,66E+01	4,15E-01	2,88E-02	0	0
Indicator	Unit	B4	C1	C2	C3	C4	D
GWPIOBC	kg CO ₂ -eq	0	0	6,92E-02	4,14E+00	1,01E-02	-7,48E-01

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.

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.

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.

ecoinvent v3, Allocation, cut-off by classification, Swiss Centre of Life Cycle Inventories.

Iversen et al., (2021) eEPD v2021.09 Background information for EPD generator tool system verification, LCA.no Report number: 07.21 Ruud et al., (2023) EPD generator for NPCR026 Part B for Furniture - Background information for EPD generator application and LCA data, LCA.no report number 01.23

NPCR Part A: Construction products and services. Ver. 2.0. March 2021, EPD-Norge.

NPCR 026 Part B for Furniture. Ver. 2.0 March 2022, EPD-Norge.

and norge	Program operator and publisher	Phone:	+47 977 22 020
epd-norge	The Norwegian EPD Foundation	e-mail:	post@epd-norge.no
Global program operatør	Post Box 5250 Majorstuen, 0303 Oslo, Norway	web:	www.epd-norge.no
	Owner of the declaration:	Phone:	
EDSBYN	AB Edsbyverken	e-mail:	maria.olsson@edsbyn.com
	Karlsvägen 2, 828 32 Edsbyn, Sweden	web:	www.edsbyn.com
	Author of the Life Cycle Assessment	Phone:	+47 916 50 916
(LCA\	LCA.no AS	e-mail:	post@lca.no
.no	Dokka 6A, 1671 Kråkerøy, Norway	web:	www.lca.no
	Developer of EPD generator	Phone:	+47 916 50 916
(LCA\	LCA.no AS	e-mail:	post@lca.no
.no	Dokka 6A, 1671 Kråkerøy, Norway	web:	www.lca.no
ECO PLATFORM	ECO Platform	web:	www.eco-platform.org
VERIFIED	ECO Portal	web:	ECO Portal