



Environmental product declaration

in accordance with ISO 14025 and EN 15804+A2

RH Mereo











Owner of the declaration:

Flokk AS

Product:

RH Mereo

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-7734-7119-EN

Registration number: NEPD-7734-7119-EN

Issue date: 08.10.2024

Valid to: 08.10.2029

EPD software:

LCAno EPD generator ID: 564644

The Norwegian EPD Foundation



General information

Product

RH Mereo

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-7734-7119-EN

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 RH Mereo

Declared unit (cradle to gate) with option:

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

Functional unit:

1 pcs. RH Mereo 220 (8212, including packaging.

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:

Flokk AS

Contact person: Atle Thiis-Messel Phone: 0047 98 25 68 30 e-mail: atle.messel@flokk.com

Manufacturer:

Flokk AS Drammensveien 145, 0277 Oslo, Norway

Place of production:

Flokk - Nässjö Vallgatan 1 571 23 Nässjö, Sweden

Management system:

ISO 14001, ISO 9001.

Organisation no:

No 928 902 749

Issue date:

08..10.2024

Valid to:

08.10.2029

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: Kenneth Dam Lindegaard Knudsen

Reviewer of company-specific input data and EPD: Edward Buzura

Approved:

Håkon Hauar

Managing Director of EPD-Norway



Product

Product description:

The RH Mereo series offers a range of ergonomic office chairs designed to suit individuals of all sizes and shapes, making them ideal for personal use as well as shared office environments. Each model in the series is highly adjustable, with user-friendly levers and intuitive controls that allow users to easily customize the chair to their personal preferences.

The RH Mereo 220 features a large, curved backrest that provides excellent support, while the RH Mereo 300 offers a large, square backrest for those who prefer a different shape. Both models come standard with castors for soft floors and a durable black lacquered aluminium base, though they can also be customized with a silver base or other optional accessories to fit various workspace aesthetics.

For users who prefer a more compact design, the RH Mereo 200 has a medium backrest that offers the same level of comfort and adjustability. Like the other models in the series, it features the same high-quality build, intuitive controls, and options for customization, including black or silver base finishes and black or light grey plastic details.

All RH Mereo chairs are designed to ensure a comfortable seating experience, promoting both productivity and well-being, while offering flexibility to adapt to any office environment.

Product specification

The model studied in this declaration is the RH Mereo 220 (8212), including packaging. The model declared does not include any options such as armrests.

The key environmental indicators for the other models of the family, and applicable options of the product collection are presented in a table on page 12 of this declaration.

Materials	kg	%	Recycled share in material (kg)	Recycled share in material (%)
Plastic - Nylon (PA)	0,31	1,76	0,00	0,00
Plastic - Polyethylene (HDPE)	0,09	0,50	0,00	0,00
Plastic - Polyoxymethylene (POM)	0,30	1,67	0,00	0,00
Plastic - Polypropylene (PP)	3,97	22,21	2,48	62,41
Plastic - Polyurethane (PUR)	1,06	5,92	0,00	0,00
Powder coating	0,02	0,09	0,00	0,00
Reinforcement	0,04	0,24	0,00	0,00
Rubber, synthetic	0,05	0,26	0,00	0,00
Textile - Felt	0,00	0,01	0,00	0,00
Textile - Polyester (PE)	0,21	1,16	0,20	98,02
Textile - Wool	0,00	0,01	0,00	0,00
Metal - Aluminium	6,08	34,05	5,97	98,12
Metal - Stainless steel	0,00	0,00	0,00	21,89
Metal - Steel	5,72	32,04	0,54	9,38
Others	0,02	0,09	0,00	1,24
Total	17,86	100,00	9,18	

Packaging	kg	%	Recycled share in material (kg)	Recycled share in material (%)
Packaging - Cardboard	0,80	19,45	0,00	0,00
Packaging - Paper	0,03	0,68	0,01	34,31
Packaging - Plastic	0,07	1,80	0,00	0,00
Recycled cardboard	3,22	78,07	3,22	100,00
Total incl. packaging	21,98	100,00	12,41	

Technical data:

Market:

Worldwide.

A4 stage transportation from factory to market, is assumed to be $1.000 \ \text{km}$. See table on page 6 for further detail.

Reference service life, product



15 years

Reference service life, building

LCA: Calculation rules

Declared unit:

1 pcs RH Mereo

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:

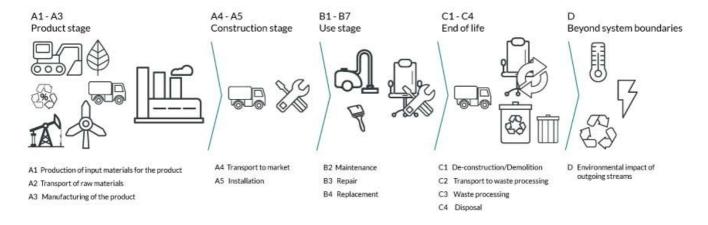
Specific data for the product composition are provided by the manufacturer. They represent the production of the declared product and were collected for EPD development in the year of study. Background data is based on registered EPDs according to EN 15804, Ostfold Research databases, ecoinvent and other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

Materials	Source	Data quality	Year
Metal - Aluminium	ecoinvent 3.6	Database	2019
Metal - Stainless steel	ecoinvent 3.6	Database	2019
Metal - Steel	ecoinvent 3.6	Database	2019
Metal - Steel	SSAB	EPD (EN15804A1) + company dataset (EN15804A2)	2020
Others	ecoinvent 3.6	Database	2019
Packaging - Cardboard	Modified ecoinvent 3.6	Database	2019
Packaging - Paper	ecoinvent 3.6	Database	2019
Packaging - Plastic	ecoinvent 3.6	Database	2019
Plastic - Nylon (PA)	ecoinvent 3.6	Database	2019
Plastic - Polyethylene (HDPE)	ecoinvent 3.6	Database	2019
Plastic - Polyoxymethylene (POM)	ecoinvent 3.6	Database	2019
Plastic - Polypropylene (PP)	ecoinvent 3.6	Database	2019
Plastic - Polypropylene (PP)	Modified ecoinvent 3.6	Database	2019
Plastic - Polyurethane (PUR)	ecoinvent 3.6	Database	2019
Powder coating	Ecoinvent 3.6	Database	2019
Recycled cardboard	Modified ecoinvent 3.6	Database	2019
Reinforcement	ecoinvent 3.6	Database	2019
Rubber, synthetic	ecoinvent 3.6	Database	2019
Textile - Felt	Modified ecoinvent 3.6	Database	2019
Textile - Polyester (PE)	ecoinvent 3.6	Database	2019
Textile - Polyester (PE)	Modified ecoinvent 3.6	Database	2019
Textile - Wool	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	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	В3	B4	B5	В6	В7	C1	C2	C3	C4	D
Χ	Χ	Χ	Χ	Χ	MND	X	Χ	Χ	MND	MND	MND	Χ	X	X	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, over 32 tonnes, EURO 6 (km)	53,3 %	1000	0,023	l/tkm	23,00
Assembly (A5)	Unit	Value			
Waste, packaging, paper printed, to average treatment (kg)	kg	0,03			
Waste, packaging, corrugated board box, 0 % recycled, to average treatment (kg)	kg	0,80			
Waste, packaging, plastic film (LDPE), to average treatment - A5 (kg)	kg	0,07			
Waste, packaging, cardboard, 100 % recycled, to average treatment (kg)	kg	3,22			
Maintenance (B2)	Unit	Value			
Water, tap water (m3)	m3/DU	11,70			
Electricity, Nordic (kWh)	kWh/DU	0,81			
Repair (B3)	Unit	Value			
Electricity, Nordic (kWh)	kWh/DU	0,55			
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 %	100	0,043	l/tkm	4,30
Waste processing (C3)	Unit	Value			
Waste treatment per kg Rubber, municipal incineration with fly ash extraction (kg)	kg	0,05			
Waste treatment per kg Polyoxymethylene (POM), incineration with fly ash extraction (kg) - CH - C3	kg	0,30			
Waste treatment per kg Polyurethane (PU), incineration (kg)	kg	1,06			
Waste, materials to recycling (kg)	kg	2,57			
Waste treatment per kg Polyethylene, PE, incineration with fly ash extraction - C3 (kg)	kg	0,09			
Waste treatment per kg Non-hazardous waste, incineration with fly ash extraction - C3 (kg)	kg	0,06			
Waste treatment per kg Scrap steel, incineration with fly ash extraction (kg)	kg	5,72			
Waste treatment per kg Plastics, Mixture, municipal incineration with fly ash extraction (kg)	kg	0,31			
Waste treatment per kg Textile, incineration with fly ash extraction (kg)	kg	0,21			
Waste treatment per kg Scrap aluminium, incineration with fly ash extraction (kg)	kg	6,08			
Waste treatment per kg Polypropylene (PP),	kg	3,97			

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Disposal (C4)	Unit	Value		
Landfilling of ashes and residues from incineration of Scrap steel (kg)	kg	3,78		
Landfilling of ashes from incineration of Polypropylene, PP, process per kg ashes and residues - C4 (kg)	kg	0,12		
Landfilling of ashes from incineration of Plastics, Mixture, municipal incineration with fly ash extraction, process per kg ashes and residues - C4 (kg)	kg	0,01		
Landfilling of ashes from incineration of Rubber, process per kg ashes and residues - C4 (kg)	kg	0,00		
Landfilling of ashes and residues from incineration of Scrap aluminium (kg)	kg	5,45		
Landfilling of ashes from incineration of Polyethylene, PE, process per kg ashes and residues - C4 (kg)	kg	0,00		
Landfilling of ashes from incineration of Textile, soiled, process per kg ashes and residues (kg)	kg	0,01		
Landfilling of ashes from incineration of Polyurethane (PU), process per kg ashes and residues - C4 (kg)	kg	0,04		
Landfilling of ashes from incineration of Polyoxymethylene (POM), process per kg ashes and residues (kg) - CH - C4	kg	0,01		
Landfilling of ashes from incineration of Non- hazardous waste, process per kg ashes and residues - C4 (kg)	kg	0,01		

Benefits and loads beyond the system boundaries (D)	Unit	Value		
Substitution of thermal energy, district heating, in Norway (MJ)	MJ	139,19		
Substitution of electricity, in Norway (MJ)	MJ	9,20		
Substitution of primary steel with net scrap (kg)	kg	1,64		
Substitution of primary aluminium with net scrap (kg)	kg	0,01		



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 -e	ed	4,23E+01	1,92E+00	6,94E+00	4,16E+00	8,01E-02
	GWP-fossil		kg CO ₂ -e	eq	4,87E+01	1,91E+00	7,13E-02	4,12E+00	7,47E-02
	GWP-biogenic		kg CO ₂ -e	eq	-6,43E+00	8,20E-04	6,87E+00	2,72E-02	1,36E-03
	GWP-luluc		kg CO ₂ -e	eq	6,40E-02	5,83E-04	2,21E-05	1,26E-02	4,09E-03
٨	ODP		kg CFC11	-eq	3,58E-06	4,62E-07	1,42E-08	3,67E-07	8,08E-09
Œ	AP		mol H+ -	eq	2,27E-01	6,16E-03	3,17E-04	2,39E-02	3,44E-04
	EP-FreshWater		kg P -ed	1	2,09E-03	1,52E-05	5,50E-07	3,28E-04	4,94E-06
	EP-Marine		kg N -ed	7	4,86E-02	1,35E-03	1,09E-04	3,79E-03	5,44E-05
	EP-Terrestial		mol N -e	eq	4,97E-01	1,51E-02	1,14E-03	4,43E-02	7,31E-04
	POCP		kg NMVOC	-eq	1,65E-01	5,91E-03	3,28E-04	1,38E-02	1,71E-04
	ADP-minerals&metals ¹		kg Sb-ed	7	2,48E-02	3,41E-05	1,62E-06	1,14E-04	1,16E-06
	ADP-fossil ¹		МЈ		7,44E+02	3,11E+01	9,40E-01	7,15E+01	2,02E+00
<u>%</u>	WDP ¹		m^3		8,62E+03	2,38E+01	1,25E+00	1,46E+03	1,56E+02
	Indicator		Unit	B4	C1	C2	C3	C4	D
	GWP-total		kg CO ₂ -eq	0	0	3,59E-01	1,52E+01	1,10E-01	-2,75E+00
	GWP-fossil		kg CO ₂ -eq	0	0	3,59E-01	1,49E+01	1,10E-01	-2,71E+00
	GWP-biogenic		kg CO ₂ -eq	0	0	1,49E-04	3,08E-01	8,21E-05	-3,14E-03
	GWP-Iuluc		kg CO ₂ -eq	0	0	1,28E-04	5,29E-05	3,22E-05	-3,06E-02
٨	ODP	ŀ	kg CFC11 -eq	0	0	8,13E-08	3,27E-08	3,27E-08	-5,88E-02
CE CE	АР		mol H+ -eq	0	0	1,03E-03	4,93E-03	7,54E-04	-1,63E-02
	EP-FreshWater		kg P -eq	0	0	2,87E-06	3,83E-06	1,12E-06	-1,87E-04
	EP-Marine		kg N -eq	0	0	2,04E-04	2,53E-03	2,68E-04	-4,12E-03
	EP-Terrestial		mol N -eq	0	0	2,28E-03	2,56E-02	2,96E-03	-4,34E-02
	POCP	kg NMVOC -eq		0	0	8,75E-04	6,20E-03	8,52E-04	-1,58E-02
	ADP-minerals&metals ¹		kg Sb-eq	0	0	9,92E-06	1,45E-06	1,82E-06	-3,89E-05
	ADP-fossil ¹		MJ	0	0	5,43E+00	2,78E+00	2,42E+00	-2,80E+01
<u>%</u>	WDP ¹		m ³	0	0	5,25E+00	7,72E+00	5,28E+00	-1,11E+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

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 e	nvironmental impac	t indicators						
	Indicator	Unit		A1-A3	A4	A5	B2	В3
	PM	Disease incidence		2,64E-06	1,76E-07	4,70E-09	1,99E-07	1,83E-09
	IRP ²	kgBq U235 -eq		2,11E+00	1,36E-01	4,03E-03	5,42E-01	4,60E-02
	ETP-fw ¹	CTUe		1,74E+03	2,27E+01	1,24E+00	7,79E+01	2,53E+00
44.	HTP-c ¹	CTUh		1,54E-07	0,00E+00	3,60E-11	1,12E-08	5,90E-11
4ge	HTP-nc ¹	CTUh		9,58E-07	2,20E-08	1,56E-09	2,49E-07	1,55E-09
	SQP ¹	dimensionless		3,73E+02	3,56E+01	6,57E-01	2,14E+01	1,52E+00
I	ndicator	Unit	B4	C1	C2	C3	C4	D
	PM	Disease incidence	0	0	2,20E-08	3,55E-08	1,37E-08	-5,60E-07
	IRP ²	kgBq U235 -eq	0	0	2,37E-02	5,19E-03	9,77E-03	-7,31E-02
	ETP-fw ¹	CTUe	0	0	4,02E+00	4,46E+01	1,50E+00	-1,65E+02
40.	HTP-c ¹	CTUh	0	0	0,00E+00	8,76E-10	5,50E-11	-1,01E-08
8° B	HTP-nc ¹	CTUh	0	0	4,40E-09	2,38E-08	1,52E-09	1,25E-07
	SQP ¹	dimensionless	0	0	3,80E+00	3,96E-01	5,30E+00	-7,83E+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.

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Resource use											
	Indicator		Unit	A1-A3	A4	A5	B2	В3			
(F)	PERE		MJ	1,51E+02	3,91E-01	1,57E-02	1,22E+01	1,98E+00			
	PERM		MJ	3,20E+01	0,00E+00	-3,20E+01	0,00E+00	0,00E+00			
T,	PERT		MJ	1,83E+02	3,91E-01	-3,20E+01	1,22E+01	1,98E+00			
	PENRE		MJ	6,08E+02	3,11E+01	9,40E-01	7,16E+01	2,05E+00			
40	PENRM		MJ	1,95E+02	0,00E+00	-3,14E+00	0,00E+00	0,00E+00			
IA	PENRT		MJ	8,03E+02	3,11E+01	-2,20E+00	7,16E+01	2,05E+00			
	SM		kg	1,24E+01	0,00E+00	0,00E+00	0,00E+00	0,00E+00			
2	RSF		MJ	1,53E+00	1,37E-02	5,16E-04	7,76E-01	2,00E-02			
	NRSF		MJ	6,53E+00	4,59E-02	2,10E-03	7,36E-01	0,00E+00			
%	FW		m ³		3,54E-03	4,45E-04	1,18E+01	9,03E-03			
In	dicator	Unit	B4	C1	C2	C3	C4	D			
i de la companya de l	PERE	MJ	0	0	7,77E-02	9,22E-02	4,73E-02	-7,30E+01			
A	PERM	MJ	0	0	0,00E+00	-2,20E-02	0,00E+00	0,00E+00			
₹ <u>s</u>	PERT	MJ	0	0	7,77E-02	7,02E-02	4,73E-02	-7,30E+01			
	PENRE	MJ	0	0	5,43E+00	2,79E+00	2,42E+00	-2,80E+01			
<u>å</u>	PENRM	MJ	0	0	0,00E+00	-1,92E+02	0,00E+00	0,00E+00			
IA	PENRT	MJ	0	0	5,43E+00	-1,89E+02	2,42E+00	-2,80E+01			
	SM	kg	0	0	0,00E+00	0,00E+00	0,00E+00	0,00E+00			
1	RSF	МЈ	0	0	2,78E-03	2,17E-03	1,25E-03	5,23E-02			
	NRSF	MJ	0	0	9,94E-03	0,00E+00	6,49E-02	-2,33E+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 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; RSF = Use of non-renewable secondary fuels; RSF = Use of fresh water

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

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End of life - Waste	End of life - Waste											
	Indicator				A1-A3	A4	A5	B2	В3			
	HWD	HWD		kg		1,70E-03	0,00E+00	1,32E-02	1,89E-04			
Ū	NHWD	NHWD		kg		2,70E+00	4,12E+00	8,51E-01	1,25E-02			
®	RWD		k	g	3,03E-03	2,12E-04	0,00E+00	4,33E-04	2,11E-05			
In	dicator		Unit	B4	C1	C2	C3	C4	D			
	HWD		kg	0	0	2,80E-04	0,00E+00	9,36E+00	-9,46E-03			
Ū	NHWD		kg	0	0	2,64E-01	5,88E-02	1,46E-01	-1,04E+00			
®	RWD		kg	0	0	3,70E-05	0,00E+00	1,49E-05	-6,09E-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	Un	Unit		A4	A5	B2	В3				
®	CRU	kç	9	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00				
&▷	MFR	kç	kg		0,00E+00	3,80E+00	0,00E+00	0,00E+00				
DF	MER	kç		4,25E-01	0,00E+00	1,97E-03	0,00E+00	0,00E+00				
5D	EEE	М	J	2,82E-01	0,00E+00	2,32E-01	0,00E+00	0,00E+00				
DB	EET	М	J	4,26E+00	0,00E+00	3,50E+00	0,00E+00	0,00E+00				
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	2,57E+00	0,00E+00	0,00E+00				
DV	MER	kg	0	0	0,00E+00	1,78E+01	0,00E+00	0,00E+00				
50	EEE	МЈ	0	0	0,00E+00	9,48E+00	0,00E+00	0,00E+00				
	EET	МЈ	0	0	0,00E+00	1,43E+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						
Unit	At the factory gate					
kg C	0,00E+00					
kg C	1,87E+00					
	kg C					

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, high voltage, hydro (kWh) - SE	ecoinvent 3.6	4.02	a CO2-ea/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	42,29	1,92	71,10	68,35
Total energy consumption	MJ	767,97	31,55	900,83	797,53
Amount of recycled materials	%	56.45			

Additional environmental impact indicators required in NPCR Part A for construction products							
Indicator	Unit	Unit		A4	A5	B2	В3
GWPIOBC	kg CO ₂ -eq	kg CO ₂ -eq		1,92E+00	7,14E-02	4,20E+00	1,09E-01
Indicator	Unit	Unit B4		C2	C3	C4	D
GWPIOBC	kg CO ₂ -eq	kg CO ₂ -eq 0		3,59E-01	1,52E+01	1,12E-01	-3,62E+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 (%)	
RH Mereo 200 (8112) - Upholstered seat/back (Cura/Gabriel) - No packaging	17,45	44,82	644,79	50,73	
RH Mereo 220 (8212) - Upholstered seat/back (Cura/Gabriel) - No packaging	17,86	45,07	651,84	51,41	
RH Mereo 300 (8312) - Upholstered seat/back (Cura/Gabriel) - No packaging	18,35	47,71	695,91	50,48	

Key environmental indicators (A1-A3) for options for this EPD						
Options	Weight (kg)	GWPtotal (kg CO ₂ - eq)	Total energy consumption (MJ)	Amount of recycled materials (%)		
RH Mereo Headrest - Fabric (Cura/Gabriel)	0,94	1,79	24,42	79,83		
RH Mereo Headrest - Leather (Wollsdorf/Paloma soft)	1,02	3,18	31,13	71,44		
Armrests 8T	3,51	9,60	120,81	62,15		
Armrests 8T XL	3,80	13,49	138,92	57,44		
Packaging 1 (Small box, not assembled - used in declared unit)	4,12	-2,78	116,13	78,31		
Packaging 2 (Large box, fully assembled)	5,75	-4,30	157,77	84,78		



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