

Environmental product declaration

in accordance with ISO 14025 and EN 15804+A2

Izi Effect frame incl. top 180x90 laminat





The Norwegian EPD Foundation

Owner of the declaration: EFG European Furniture Group AB

Product: Izi Effect frame incl. top 180x90 laminat

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-5197-4518-EN

Registration number:

NEPD-5197-4518-EN

Issue date: 17.10.2023

Valid to: 17.10.2028

EPD Software: LCA.no EPD generator ID: 67064



General information

Product Izi Effect frame incl. top 180x90 laminat

Program operator:

Post Box 5250 Majorstuen, 0303 Oslo, Norway The Norwegian EPD Foundation Phone: +47 23 08 80 00 web: post@epd-norge.no

Declaration number: NEPD-5197-4518-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 Izi Effect frame incl. top 180x90 laminat

Declared unit (cradle to gate) with option:

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

Functional unit:

Manually heigh-adjustable office table

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:

EFG European Furniture Group AB Contact person: Christer Johansson Phone: e-mail: christer.johansson@efg.se

Manufacturer:

EFG European Furniture Group AB

Place of production:

EFG European Furniture Group AB

, Norway

Management system:

ISO 14001

Organisation no:

Issue date: 17.10.2023

Valid to: 17.10.2028

Year of study:

2022

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: Andreas Mattisson

Reviewer of company-specific input data and EPD: Christer Johansson

Approved:

Hakon Harrow

Håkon Hauan, CEO EPD-Norge

Product

Product description:

Manually heigh-adjustable office table

Product specification

Manually heigh-adjustable office table

Materials	kg	%	Recycled share in material (kg)	Recycled share in material (%)
Powder coating	0,10	0,26	0,00	0,00
Plastic - Melamine	0,20	0,51	0,00	0,00
Metal - Steel	20,70	52,95	0,00	0,00
Metal - Stainless steel	0,20	0,51	0,04	21,89
Wood - Chipboard	17,80	45,53	0,00	0,00
Plastic - Polyethylene (HDPE)	0,10	0,25	0,00	0,00
Total	39,09		0,04	
Packaging	kg	%	Recycled share in material (kg)	Recycled share in material (%)
Packaging - Cardboard	1,50	100,00	0,54	36,00

40,59

Technical data:

Total incl. packaging

Market:

Scandinavia

Reference service life, product

15 year

Reference service life, building

LCA: Calculation rules

Declared unit:

1 pcs lzi Effect frame incl. top 180x90 laminat

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.

0,58

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.

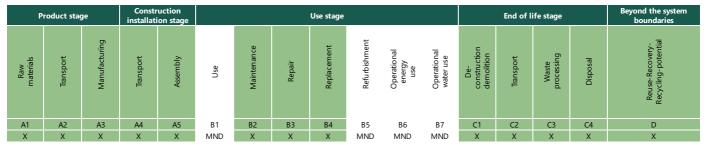
Data quality:

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.

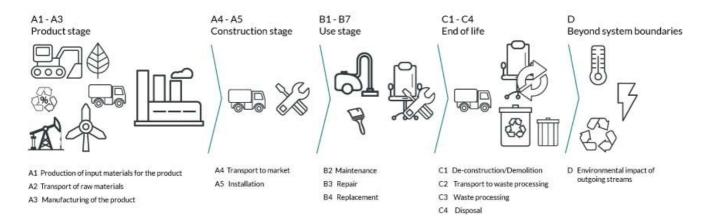
Materials	Source	Data quality	Year
Metal - Stainless steel	ecoinvent 3.6	Database	2019
Metal - Steel	ecoinvent 3.6	Database	2019
Packaging - Cardboard	ecoinvent 3.6	Database	2019
Plastic - Melamine	ecoinvent 3.6	Database	2019
Plastic - Polyethylene (HDPE)	ecoinvent 3.6	Database	2019
Powder coating	Ecoinvent 3.6	Database	2019
Wood - Chipboard	ecoinvent 3.6	Database	2019

e f e

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



System boundary:



Additional technical information:

LCA: Scenarios and additional technical information

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

Check out www.efg.se for caring instructions

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 5 (km)	36,7 %	300	0,044	l/tkm	13,20
Assembly (A5)	Unit	Value			
Waste, packaging, corrugated board box, to average treatment (kg)	kg	1,50			
Maintenance (B2)	Unit	Value			
Household detergent, 5% soap solution (kg) Wastewater, average treatment (m3)	kg/DU m3	1,00 0,00			
wastewater, average treatment (ms)		0,00			
Transport to waste processing (C2)	Capacity utilisation (incl. return) %	Distance (km)	Fuel/Energy Consumption	Unit	Value (Liter/tonne)
Truck, 16-32 tonnes, EURO 5 (km)	36,7 %	85	0,044	l/tkm	3,74
Waste processing (C3)	Unit	Value			
Waste treatment per kg Non-hazardous waste, incineration with fly ash extraction - C3 (kg)	kg	0,30			
Waste treatment per kg Polyethylene, PE, incineration with fly ash extraction - C3 (kg)	kg	0,10			
Waste treatment per kg Scrap steel, incineration with fly ash extraction (kg)	kg	20,90			
Waste treatment per kg Wood, incineration with fly ash extraction (kg)	kg	17,80			
Waste, materials to recycling (kg)	kg	7,09			
Disposal (C4)	Unit	Value			
Landfilling of ashes and residues from incineration of Scrap steel (kg)	kg	13,81			
Landfilling of ashes from incineration of Non- hazardous waste, process per kg ashes and residues - C4 (kg)	kg	0,07			
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 Wood, process per kg ashes and residues (kg)	kg	0,20			
Benefits and loads beyond the system boundaries (D)	Unit	Value			
Substitution of electricity, in Norway (MJ)	MJ	12,74			
Substitution of primary steel with net scrap (kg)	kg	7,08			
Substitution of thermal energy, district heating, in Norway (MJ)	MJ	192,79			

LCA: Results

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

Indicator Duti A1-A3 AA A5 B7 B7 § GWP-total Hg CO ₂ -q 475610 20500 237600 31960 319	Environme	ental impact							
Image: Construct to the sector of the se		Indicator	Unit		A1-A3	A4	A5	B2	B3
Image: Problem Problem Hg CO2+eq -3.22+01 8.26E-04 2.55E-00 5.16E-02 0 Image: Problem Pro	P	GWP-total	kg CO ₂ -	eq	4,75E+01	2,03E+00	2,57E+00	3,19E-01	0
Image: Constraint of the set of t	P	GWP-fossil	kg CO ₂ -	kg CO ₂ -eq		2,02E+00	2,43E-02	1,11E-01	0
(☉) DDP kg CFC11-eq S87E-06 4.62E-07 5,12E-09 1,86E-08 0 (☉) AP molH+eq 4.38E-01 8.28E-03 1,15E-04 1,31E-03 0 (☉) EP-freshWater kg P-eq 5.28E-03 1,59E-05 1,39E-07 7,39E-04 0 (☉) EP-freshWater kg P-eq 5.58E-02 2.48E-03 3,30E-05 1,34E-03 0 (☉) EP-freshWater kg N-eq 8,55E-02 2.48E-03 5,38E-05 5,31E-03 1,34E-03 0 (☉) POCP kg NMVOC 3,87E-01 8,31E-03 1,18E-04 6,77E-06 0 (☉) MDP-fossil MJ 9,47E+02 3,05E-01 3,31E-01 1,21E+00 0 (☉) MDP ¹ MI 9,47E+02 3,05E-01 3,31E+01 1,57E-01 6,30E-00 6 (☉) MDP ¹ MI P 9,47E+02 3,18E+01 1,31E+01 1,57E-01 6,30E-00 6 (☉) MDP ¹ MI MI 0 0 2,32E+01 3,18E+01 <	Ø	GWP-biogenic	kg CO ₂ -	eq	-3,22E+01	8,26E-04	2,55E+00	5,16E-02	0
Image: PrestructurePP-FrestructureMon H++ eq4,38E-018,28E-031,15E-041,31E-030Image: PrestructureKg P-eq5,28E-031,99E-071,99E-077,99E-040Image: PrestructureMg N-eq8,55E-022,45E-033,80E-051,34E-030Image: PrestructureMg N-eq1,00E+002,71E-024,11E-044,40E-030Image: PrestructureMg NMVOC-g3,87E-018,31E-031,18E-047,47E-040Image: PrestructureKg Sh-eq2,42E-035,48E-055,91E-076,77E-060Image: PrestructureMgMg9,47E+023,05E+013,39E-013,27E+000Image: PrestructureMg CQ_reqMg03,05E+013,31E+011,57E-01-8,99E+00Image: PrestructureMg CQ_req005,74E+013,18E+011,57E-01-8,99E+00Image: PrestructureKg CQ_req002,34E+031,18E+001,57E-01-8,99E+00Image: PrestructureKg CQ_req002,34E+033,34E+01-4,99E+00Image: PrestructureKg CQ_req0001,31E+001,71E-04-6,06E+03Image: PrestructureKg P-eq0002,34E+033,34E+03-4,99E+03Image: PrestructureKg P-eq0002,34E+033,64E+031,11E+03-4,99E+03Image: PrestructureKg P-eq0002,34E+03	Ø	GWP-luluc	kg CO ₂ -	eq	2,70E-01	7,08E-04	8,03E-06	1,56E-01	0
↔ EP-freshWater kg P-eq 5,28E-03 1,98E-07 7,99E-04 0 $↔$ EP-Marine kg N-eq 8,55E-02 2,45E-03 3,80E-05 1,34E-03 0 $↔$ POCP kg NMOC - $$ 3,07E-01 8,31E-03 1,18E-04 7,47E-04 0 $↔$ ADP-minerals&metals ¹ kg Sb-eq 2,42E-03 5,48E-05 5,91E-07 6,77E-06 0 $↔$ ADP-fossil ¹ MJ 9,47E+02 3,05E-01 3,38E-01 1,21E+00 0 $↔$ MDP-fossil ¹ MJ 9,47E+02 3,05E-01 3,38E-01 1,21E+00 0 $↔$ MDP-fossil MJ 9,47E+02 3,05E-01 3,38E-01 1,21E+00 0 $↔$ MDP-fossil MJ 9,47E+02 3,05E-01 3,38E-01 2,57E+00 3,38E-01 3,38E-01 2,57E+01 9,0E-07 9,0E $↔$ MDP-fossil MJ 0,1 0 0 5,74E-01 3,38E-01 5,76E-01 3,38E-01 4,30E-01 6,66E-03 $↔$ GWP-fossil kg CO2-eq <th>Ò</th> <th>ODP</th> <th>kg CFC11</th> <th>-eq</th> <th>5,87E-06</th> <th>4,62E-07</th> <th>5,12E-09</th> <th>1,86E-08</th> <th>0</th>	Ò	ODP	kg CFC11	-eq	5,87E-06	4,62E-07	5,12E-09	1,86E-08	0
Image: Problem in the symmetry interaction into the symmetry interaction interaction into the symmetry interaction into the symmetry interaction interactinteractintenequilated interaction interaction interac	E.	AP	mol H+ -	eq	4,38E-01	8,28E-03	1,15E-04	1,31E-03	0
Image: Price state mol N - eq 1,00E+00 2,71E-02 4,11E-04 4,40E-03 0 Image: POCP kg NMVOC - q 3,87E-01 8,31E-03 1,18E-04 7,47E-04 0 Image: POCP kg NMVOC - q 2,42E-03 5,48E-05 5,91E-07 6,77E-06 0 Image: POCP Mg Sb - q 2,42E-03 5,48E-05 5,31E-07 6,77E-06 0 Image: POCP Mg Sb - q 9,47E+02 3,38E-01 1,21E+00 0 Image: POCP Mg Port Pocsil Mg MVOC - q 9,47E+02 3,38E-01 3,38E-01 1,21E+00 0 Image: Poch Mg Port Pocsil Mg Port Poc Port Poch 8,48E-03 2,91E+01 1,31E+01 1,57E-01 8,85E+00 Image: Poch GWP-total Kg CO2-eq O 0 5,74E+01 3,18E+01 1,57E-01 8,85E+00 Image: Poch GWP-total Kg CO2-eq O 0 2,34E+04 1,57E-01 8,95E+00 4,30E+01 1,57E+01 8,95E+00 Image: Poch GWP-total Kg CO2-eq O 0 2,34E+04 3,4E		EP-FreshWater	kg P -eo	1	5,28E-03	1,59E-05	1,99E-07	7,99E-04	0
POCP kg NMVOC -q $3,87E-01$ $8,31E-03$ $1,18E-04$ $7,47E-04$ 0 ADP-minerals@metals ¹ kg SD -q $2,42E-03$ $5,48E-05$ $5,91E-07$ $6,77E-06$ 0 M MJ $9,47E+02$ $3,05E+01$ $3,39E-01$ $1,21E+00$ 0 M MJ $9,47E+02$ $2,91E+01$ $3,39E-01$ $1,21E+00$ 0 MD MJ $5,74E+03$ $2,91E+01$ $4,30E-01$ $2,57E+00$ 0 M M B4 C1 C2 C3 C4 DD MO Mg CO_2-eq 0 0 $5,74E+03$ $3,13E+01$ $1,57E+01$ $8,99E+00$ M Mg CO_2-eq 0 0 $5,74E+03$ $2,31E+01$ $1,71E+04$ $6,60E-03$ M GWP-biogenic kg CO_2-eq 0 0 $2,31E+01$ $1,71E+04$ $4,80E-03$ $4,31E+02$ M GWP-biogenic kg CO_2-eq 0 0 $2,31E+01$ $3,74E+03$ $4,74E+04$ $4,90E-03$ M ODP MP MI<+eq		EP-Marine	kg N -e	9	8,55E-02	2,45E-03	3,80E-05	1,34E-03	0
▲DP-minerals&metals1kg Sb -q2.42E-035.48E-055.91E-076.77E-060▲DP-fossil1 M M 9.47E+023.05E+013.39E-011.21E+000▲MDP-fossil1 M M 5.74E-032.91E+013.39E-011.21E+000MUP1 M M C1C2C3C4DMICMdicator $MitMitB4C1C2C3C4DMitMitB4C1C2C3C4DDMitMitB4C1C2C3C4DDMitMitB4C1C2C3C4DDMitMitB4C1C2C3C4DDMitMitB4C1C2C3C4DDDMitMitB4C1C2C3C3C4DDDMitMitB4C1C1C2C3C3C4DDDMitMitDDDDDDDDDDDDDDDMitMitDDDDDDDDDDDDDDDDMitMitDDDDDDDDDDDDDDDDDDD<$		EP-Terrestial	mol N -e	p	1,00E+00	2,71E-02	4,11E-04	4,40E-03	0
		РОСР	kg NMVOC	-eq	3,87E-01	8,31E-03	1,18E-04	7,47E-04	0
		ADP-minerals&metals ¹	kg Sb -e	q	2,42E-03	5,48E-05	5,91E-07	6,77E-06	0
Indicator Unit B4 C1 C2 C3 C4 D $@$ GWP-total kg C02-eq 0 0 5,74E-01 3,13E+01 1,57E-01 -8,95E+00 $@$ GWP-total kg C02-eq 0 0 5,74E-01 1,31E+00 1,57E-01 -8,90E+00 $@$ GWP-biogenic kg C02-eq 0 0 2,34E-04 2,99E+01 1,17E-04 -6,60E-03 $@$ GWP-biogenic kg C02-eq 0 0 2,34E-04 2,99E+01 1,17E-04 -6,60E-03 $@$ GWP-biogenic kg C02-eq 0 0 2,01E-04 7,38E-05 4,20E-02 $@$ GWP-luluc kg C02-eq 0 0 1,31E-07 3,24E-08 4,84E-08 -8,14E-02 $@$ DDP kg P-eq 0 0 2,35E-03 3,64E-03 1,11E-03 -4,79E-02 $@$ EP-FreshWater kg P-eq 0 0 6,96E-04 1,66E-03 3,95E-04 -1,10E-02	B	ADP-fossil ¹	MJ	MJ		3,05E+01	3,39E-01	1,21E+00	0
Image: Presentation of the pre	%	WDP ¹	m ³		5,74E+03	2,91E+01	4,30E-01	2,57E+00	0
Image: Weige of the sector of the s		Indicator	Unit	B4	C1	C2	C3	C4	D
Image: Select	P	GWP-total	kg CO ₂ -eq	0	0	5,74E-01	3,13E+01	1,57E-01	-8,95E+00
$\widehat{\Psi}$ GWP -luluc $kg CO_2$ -eq 0 0 $2,01E-04$ $7,38E-05$ $4,73E-05$ $-4,20E-02$ $\widehat{\Psi}$ ODP $kg CFC11$ -eq 0 0 $1,31E-07$ $3,24E-08$ $4,84E-08$ $-8,14E-02$ $\widehat{\Psi}$ AP $mol H+$ -eq 0 0 $2,35E-03$ $3,64E-03$ $1,11E-03$ $-4,79E-02$ $\widehat{\Psi}$ EP -FreshWater $kg P$ -eq 0 0 $4,51E-06$ $7,41E-06$ $1,57E-06$ $-5,78E-04$ $\widehat{\Psi}$ EP -FreshWater $kg P$ -eq 0 0 $6,96E-04$ $1,66E-03$ $3,95E-04$ $-1,10E-02$ $\widehat{\Psi}$ EP -FreshWater $kg N-eq$ 0 0 $6,96E-04$ $1,66E-03$ $3,95E-04$ $-1,10E-02$ $\widehat{\Psi}$ $POCP$ $kg NMVOC$ -eq 0 0 0 $2,36E-03$ $4,37E-03$ $-1,48E-03$ $\widehat{\Psi}$ $POCP$ $kg NMVOC$ -eq 0 0 $2,36E-03$ $4,52E-03$ $1,26E-03$ $-4,20E-03$ $-4,20E-03$ $\widehat{\Psi}$ ADP -minerals&metals ¹ $kg Sb$ -eq 0	P	GWP-fossil	kg CO ₂ -eq	0	0	5,74E-01	1,31E+00	1,57E-01	-8,90E+00
	P	GWP-biogenic	kg CO ₂ -eq	0	0	2,34E-04	2,99E+01	1,17E-04	-6,60E-03
Image: Normal systemAPmol H+ eq002,35E-033,64E-031,11E-03-4,79E-02Image: SystemEP-FreshWaterkg P-eq004,51E-067,41E-061,57E-065,78E-04Image: SystemEP-Marinekg N-eq006,96E-041,66E-033,95E-04-1,10E-02Image: SystemEP-Terrestialmol N-eq007,69E-031,77E-024,37E-03-1,14E-01Image: SystemPOCPkg NMVOC-eq002,36E-034,52E-031,26E-03-4,80E-02Image: SystemADP-minerals&metals1kg Sb-eq001,55E-051,74E-062,70E-06-1,45E-04Image: SystemADP-fossil1MJ008,65E+002,88E+003,58E+008,15E+01	P	GWP-luluc	kg CO ₂ -eq	0	0	2,01E-04	7,38E-05	4,73E-05	-4,20E-02
MethodEP-FreshWaterkg P - eq004,51E-067,41E-061,57E-06-5,78E-04MethodEP-Marinekg N - eq006,96E-041,66E-033,95E-04-1,10E-02MethodEP-Terrestialmol N - eq007,99E-031,77E-024,37E-03-1,14E-01MethodPOCPkg NMVOC - eq002,36E-034,52E-031,26E-03-4,80E-02MethodADP-minerals&metals ¹ kg Sb - eq001,55E-051,74E-062,70E-06-1,45E-04MethodMuthod008,65E+002,88E+003,58E+008,15E+01	Ò	ODP	kg CFC11 -eq	0	0	1,31E-07	3,24E-08	4,84E-08	-8, 14E-02
Method Method<	Ê	АР	mol H+ -eq	0	0	2,35E-03	3,64E-03	1,11E-03	-4,79E-02
Image: Constraint of the second sec	æ	EP-FreshWater	kg P -eq	0	0	4,51E-06	7,41E-06	1,57E-06	-5,78E-04
Matrix Matrix<	÷	EP-Marine	kg N -eq	0	0	6,96E-04	1,66E-03	3,95E-04	-1,10E-02
ADP-minerals&metals ¹ kg Sb -eq 0 0 1,55E-05 1,74E-06 2,70E-06 -1,45E-04 ADP-fossil ¹ MJ 0 0 8,65E+00 2,88E+00 3,58E+00 -8,15E+01	÷	EP-Terrestial	mol N -eq	0	0	7,69E-03	1,77E-02	4,37E-03	-1,14E-01
ADP-fossil ¹ MJ 0 0 8,65E+00 2,88E+00 3,58E+00 -8,15E+01		РОСР	kg NMVOC -eq	0	0	2,36E-03	4,52E-03	1,26E-03	-4,80E-02
	se de la companya de la compa	ADP-minerals&metals ¹	kg Sb -eq	0	0	1,55E-05	1,74E-06	2,70E-06	-1,45E-04
WDP ¹ m ³ 0 0 8,25E+00 5,76E+00 7,16E+00 2,05E+02	A	ADP-fossil ¹	MJ	0	0	8,65E+00	2,88E+00	3,58E+00	-8,15E+01
	9								

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		7,43E-06	1,46E-07	1,70E-09	1,85E-08	0
()~() B	IRP ²	kgBq U235 -eq		3,66E+00	1,33E-01	1,45E-03	4,37E-03	0
<i>.</i>	ETP-fw ¹	CTUe		3,41E+03	2,25E+01	4,53E-01	1,03E+01	0
40.* ****	HTP-c ¹	CTUh		5,47E-07	0,00E+00	1,40E-11	2,60E-10	0
80 E	HTP-nc ¹	CTUh		2,37E-06	2,43E-08	5,69E-10	6,02E-09	0
	SQP ¹	dimensionless	dimensionless		2,11E+01	2,28E-01	6,31E+00	0
I	ndicator	Unit	B4	C1	C2	C3	C4	D
	PM	Disease incidence	0	0	4,13E-08	6,59E-08	2,02E-08	-1,20E-06
	IRP ²	kgBq U235 -eq	0	0	3,78E-02	6,80E-03	1,43E-02	-7,41E-02
	ETP-fw ¹	CTUe	0	0	6,37E+00	1,34E+01	2,13E+00	-5,21E+02
44.* ***	HTP-c ¹	CTUh	0	0	0,00E+00	1,67E-09	7,60E-11	-3,90E-08
48 E	HTP-nc ¹	CTUh	0	0	6,88E-09	3,70E-08	2,05E-09	7,31E-07
	SQP ¹	dimensionless	0	0	5,96E+00	5,35E-01	7,82E+00	-1,12E+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.

e f e

Resource use									
	Indicator		Ur	nit	A1-A3	A4	A5	B2	B3
i. B	PERE		N	1J	1,71E+02	4,31E-01	5,59E-03	1,69E+00	0
æ	PERM		N	1J	1,71E+02	0,00E+00	-1,23E+01	0,00E+00	0
×,	PERT		N	1J	3,42E+02	4,31E-01	-1,23E+01	1,69E+00	0
B	PENRE		N	1J	9,44E+02	3,05E+01	3,39E-01	1,43E+00	0
Åø.	PENRM		Ν	1J	4,08E+00	0,00E+00	0,00E+00	0,00E+00	0
IA	PENRT		Ν	1J	9,48E+02	3,05E+01	3,39E-01	1,43E+00	0
	SM		k	g	7,77E-01	0,00E+00	0,00E+00	0,00E+00	0
1 Alexandre	RSF		Ν	1J	6,99E-01	1,54E-02	1,85E-04	1,80E-03	0
Ū.	NRSF		Ν	1J	3,27E-01	5,51E-02	7,64E-04	2,55E-03	0
(%)	FW		m	1 ³	1,05E+00	3,22E-03	1,60E-04	1,63E-02	0
	ndicator	Unit	iit	B4	C1	C2	C3	C4	D
्र	ndicator PERE	Uni t MJ		B4 0	C1 0	C2 1,22E-01	C3 1,20E-01	C4 6,69E-02	D -1,04E+02
			J						
i S	PERE	MJ	1 1	0	0	1,22E-01	1,20E-01	6,69E-02	-1,04E+02
ir V	PERE	MJ	1 1 1	0	0	1,22E-01 0,00E+00	1,20E-01 -1,58E+02	6,69E-02 0,00E+00	-1,04E+02 0,00E+00
ूर हि	PERE PERM PERT	rw rM rM	1 1 1 1	0 0 0	0 0 0	1,22E-01 0,00E+00 1,22E-01	1,20E-01 -1,58E+02 -1,58E+02	6,69E-02 0,00E+00 6,69E-02	-1,04E+02 0,00E+00 -1,04E+02
्र मु स्र	PERE PERM PERT PENRE	rw rw rw	1 1 1 1 1	0 0 0 0	0 0 0 0	1,22E-01 0,00E+00 1,22E-01 8,65E+00	1,20E-01 -1,58E+02 -1,58E+02 2,91E+00	6,69E-02 0,00E+00 6,69E-02 3,58E+00	-1,04E+02 0,00E+00 -1,04E+02 -8,15E+01
ی ج ج ب ب ب ب ب ب	PERE PERM PERT PENRE PENRM	rw rw rw rw	1 1 1 1 1 1 1 1	0 0 0 0	0 0 0 0	1,22E-01 0,00E+00 1,22E-01 8,65E+00 0,00E+00	1,20E-01 -1,58E+02 -1,58E+02 2,91E+00 -4,08E+00	6,69E-02 0,00E+00 6,69E-02 3,58E+00 0,00E+00	-1,04E+02 0,00E+00 -1,04E+02 -8,15E+01 0,00E+00
ی ج ج بی بی د	PERE PERM PERT PENRE PENRM PENRT	rw rw rw rw rw rw rw	3 1 1 1 1 1 1 1 1	0 0 0 0 0	0 0 0 0 0	1,22E-01 0,00E+00 1,22E-01 8,65E+00 0,00E+00 8,65E+00	1,20E-01 -1,58E+02 -1,58E+02 2,91E+00 -4,08E+00 -1,17E+00	6,69E-02 0,00E+00 6,69E-02 3,58E+00 0,00E+00 3,58E+00	-1,04E+02 0,00E+00 -1,04E+02 -8,15E+01 0,00E+00 -8,15E+01
	PERE PERM PERT PENRE PENRM PENRT SM	MJ MJ MJ MJ MJ Kg	1 3 1 1 1 1 1 1 1 1 1	0 0 0 0 0 0 0	0 0 0 0 0 0 0	1,22E-01 0,00E+00 1,22E-01 8,65E+00 0,00E+00 8,65E+00 0,00E+00	1,20E-01 -1,58E+02 -1,58E+02 2,91E+00 -4,08E+00 -1,17E+00 0,00E+00	6,69E-02 0,00E+00 6,69E-02 3,58E+00 0,00E+00 3,58E+00 0,00E+00	-1,04E+02 0,00E+00 -1,04E+02 -8,15E+01 0,00E+00 -8,15E+01 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; version of non renewable primary energy excluding non-renewable primary energy resources; version of non renewable primary energy resources; version of non renewable primary energy resources; version of non renewable primary energy resources; version of secondary materials; version of secondary materials; version of secondary materials; version of secondary materials; version of renewable primary energy resources; version of secondary materials; version of renewable primary energy resources; version of secondary materials; version of the version of

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

End of life - Waste	End of life - Waste									
	Indicator		U	nit	A1-A3	A4	A5	B2	B3	
Â	HWD		k	g	3,51E-01	1,56E-03	0,00E+00	1,61E-02	0	
Ū	NHWD		k	g	3,04E+01	1,46E+00	1,50E+00	4,64E-02	0	
	RWD	kg		3,13E-03	2,08E-04	0,00E+00	4,78E-06	0		
In	dicator		Unit	B4	C1	C2	C3	C4	D	
à	HWD		kg	0	0	4,41E-04	0,00E+00	1,39E+01	-4,12E-02	
Ū	NHWD		kg	0	0	4,13E-01	3,00E-01	1,44E-01	-3,56E+00	
2	RWD		kg	0	0	5,90E-05	0,00E+00	2,20E-05	-6,22E-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	End of life - Output flow									
Indic	ator	U	nit	A1-A3	A4	A5	B2	B3		
$\otimes \triangleright$	CRU	k	g	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0		
\$\$D	MFR	k	g	0,00E+00	0,00E+00	1,40E+00	0,00E+00	0		
DF	MER	k	g	0,00E+00	0,00E+00	1,05E-01	0,00E+00	0		
50	EEE	Ν	МЈ		0,00E+00	8,58E-02	0,00E+00	0		
DI	EET	Ν	MJ		0,00E+00	1,30E+00	0,00E+00	0		
Indicator		Unit	B4	C1	C2	C3	C4	D		
$\otimes \triangleright$	CRU	kg	0	0	0,00E+00	0,00E+00	0,00E+00	0,00E+00		
\otimes	MFR	kg	0	0	0,00E+00	7,09E+00	0,00E+00	0,00E+00		
Þ₽	MER	kg	0	0	0,00E+00	3,91E+01	0,00E+00	0,00E+00		
₹Þ	EEE	MJ	0	0	0,00E+00	1,31E+01	0,00E+00	0,00E+00		
	EET	MJ	0	0	0,00E+00	1,99E+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	8,17E+00
Biogenic carbon content in accompanying packaging	kg C	6,94E-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	Data 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

Additional Environmental Information

Key Environmental Indicators

Key environmental indicators	Unit	A1-A3	A4	A1-C4	A1-D
GWPtotal	kg CO ₂ -eq	47,47	2,03	84,37	75,42
Total energy consumption	MJ	1115,96	31,04	1166,08	983,15
Amount of recycled materials	%	1,44			

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	kg CO ₂ -eq		2,03E+00	0,00E+00	6,13E-01	0	
Indicator	Unit	B4	C1	C2	C3	C4	D	
GWPIOBC	kg CO ₂ -eq	0	0	5,74E-01	8,88E-01	1,58E-01	-1,28E+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.

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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.

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