

Environmental product declaration

in accordance with ISO 14025 and EN 15804+A2

OFFECCT Ezy Barstool



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The Norwegian EPD Foundation

Owner of the declaration: Flokk AS

Product: OFFECCT Ezy Barstool

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

OFFECCT

Program operator: The Norwegian EPD Foundation

Declaration number:

NEPD-5104-4435-EN

Registration number:

NEPD-5104-4435-EN

Issue date: 03.10.2023

Valid to: 03.10.2028

EPD Software: LCA.no EPD generator ID: 74704

General information

Product OFFECCT Ezy Barstool

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-5104-4435-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 OFFECCT Ezy Barstool

Declared unit (cradle to gate) with option:

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

Functional unit: OFFECCT Ezy Barstool (Gabriel/Cura - 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 - Turek ul. Górnicza 8 62-700 Turek, Poland

Management system:

ISO 14001, ISO 9001, ISO 50001 (Norway, Sweden

Organisation no:

No 928 902 749

Issue date: 03.10.2023

Valid to: 03.10.2028

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: Damian Bakowski

Reviewer of company-specific input data and EPD: Monika Kuczynska

Approved:

Hakon Harrow

Håkon Hauan, CEO EPD-Norge

Product

Product description:

In 2014 Christophe Pillet and Offecct launched the comfortable and timeless collection Ezy chairs. Though, originally designed for the famous Pullman Paris Eiffel Tour Hotel, the new additions to the collection offers more ways to enjoy its comfort be it in a meeting, at a bar, at home or in an office.

"Instead of making something strange, visible and loud, I wanted to make something very normal, simple and elegant. The purpose of the Ezy collection was to make a super functional, normal and long lasting design", says Christophe Pillet about the origin of the Ezy collection.

"The first pieces of Ezy collection were contract use oriented in terms of dimensions and proportions. By adding these new furniture to the collection, which also works in a domestic environment, we have made it more universal", says Pillet.

Product specification

The model studied in detail in this declaration is the OFFECCT Barstool with 4-cross base (powder coating) and upholstered in the Cura fabric from Gabriel - including packaging. The key environmental indicators are presented separately for the product and packaging on a table page 12 of this declaration.

Materials	kg	%	Recycled share in material (kg)	Recycled share in material (%)
Powder coating	0,06	0,45	0,00	0,00
Plastic - Polyethylene (LDPE)	0,00	0,03	0,00	0,00
Metal - Brass	0,00	0,02	0,00	17,71
Plastic - Polyvinyl chloride (PVC)	0,02	0,13	0,00	0,00
Plastic - Nylon (PA)	0,00	0,00	0,00	0,00
Wood - Plywood	2,06	16,73	0,00	0,00
Metal - Steel	8,43	68,60	1,67	19,76
Textile - Polyester (PE)	0,27	2,20	0,23	83,54
Plastic - Polyurethane (PUR)	1,45	11,83	0,00	0,00
Total	12,29		1,89	
			Pocyclod charo in	Pecycled share in

Packaging	kg	%	Recycled share in material (kg)	Recycled share in material (%)
Packaging - Plastic	0,07	2,29	0,00	0,00
Recycled cardboard	2,98	97,54	2,98	100,00
Packaging - Paper	0,01	0,17	0,00	34,31
Total incl. packaging	15,35		4,87	

Technical data:

Barstool have a frame in metal with molded cold foam. Upholstered in fixed fabric or leather, zipper in back. Standard leather in Elmo Soft. Frame in black texture lacquer with return.

Ezy Barstool: H 980, S 780, W 510, D 490/400

Market:

Worldwide

Reference service life, product

5 years

Reference service life, building

LCA: Calculation rules

Declared unit:

1 pcs OFFECCT Ezy Barstool

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.

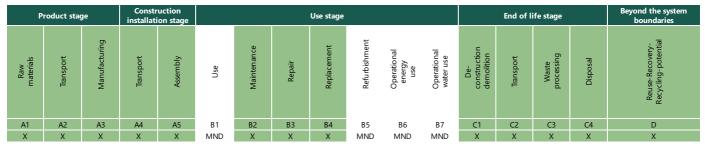
Data quality:

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.

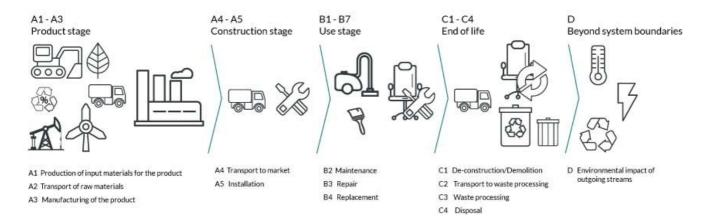
Materials	Source	Data quality	Year
Metal - Brass	ecoinvent 3.6	Database	2019
Metal - Steel	ecoinvent 3.6	Database	2019
Packaging - Paper	ecoinvent 3.6	Database	2019
Packaging - Plastic	ecoinvent 3.6	Database	2019
Plastic - Nylon (PA)	ecoinvent 3.6	Database	2019
Plastic - Polyethylene (LDPE)	ecoinvent 3.6	Database	2019
Plastic - Polyurethane (PUR)	ecoinvent 3.6	Database	2019
Plastic - Polyvinyl chloride (PVC)	ecoinvent 3.6	Database	2019
Powder coating	Ecoinvent 3.6	Database	2019
Textile - Polyester (PE)	ecoinvent 3.6	Database	2019
Recycled cardboard	Modified ecoinvent 3.6	Database	2019
Textile - Polyester (PE)	Modified ecoinvent 3.6	Database	2019
Wood - Plywood	modified ecoinvent 3.6	Database	2019

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



System boundary:



Additional technical information:

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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 5 (km)	53,3 %	1000	0,023	l/tkm	23,00
Assembly (A5)	Unit	Value			
Waste, packaging, cardboard, 100 % recycled, to average treatment (kg)	kg	2,98			
Waste, packaging, paper printed, to average treatment (kg)	kg	0,01			
Waste, packaging, plastic film (LDPE), to average treatment - A5 (kg)	kg	0,07			
Maintenance (B2)	Unit	Value			
Electricity, European average (kWh)	kWh/DU	10,53			
Electricity, World average (kWh)	kWh/DU	1,17			
Water, tap water (m3)	m3/DU	0,78			
Repair (B3)	Unit	Value			
Electricity, European average (kWh)	kWh/DU	0,50			
Electricity, World average (kWh)	kWh/DU	0,06			
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	0,06			
Waste treatment per kg Plastics, Mixture, municipal incineration with fly ash extraction (kg)	kg	0,00			
Waste treatment per kg Polyethylene, PE, incineration with fly ash extraction - C3 (kg)	kg	0,00			
Waste treatment per kg Polyurethane (PU), incineration (kg)	kg	1,45			
Waste treatment per kg Polyvinylchloride (PVC), incineration with fly ash extraction (kg)	kg	0,02			
Waste treatment per kg Scrap copper, incineration with fly ash extraction (kg)	kg	0,00			
Waste treatment per kg Scrap steel, incineration with fly ash extraction (kg)	kg	8,43			
Waste treatment per kg Textile, incineration with fly ash extraction (kg)	kg	0,27			
Waste treatment per kg Wood, incineration with fly ash extraction (kg)	kg	2,06			
Waste, materials to recycling (kg)	kg	2,86			
Disposal (C4)	Unit	Value			
Landfilling of ashes and residues from incineration of Scrap copper (kg)	kg	0,00			
Landfilling of ashes and residues from incineration of Scrap steel (kg)	kg	5,57			
Landfilling of ashes from incineration of Non- hazardous waste, process per kg ashes and residues - C4 (kg)	kg	0,01			
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 Polyethylene, PE, process per kg ashes and residues - C4 (kg)	kg	0,00			
Landfilling of ashes from incineration of Polyurethane (PU), process per kg ashes and residues - C4 (kg)	kg	0,06			
Landfilling of ashes from incineration of Polyvinylchloride (PVC), process per kg ashes and residues (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 Wood, process per kg ashes and residues (kg)	kg	0,02			

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Benefits and loads beyond the system boundaries (D)	Unit	Value		
Substitution of electricity, in Norway (MJ)	MJ	3,78		
Substitution of primary Brass with net scrap (kg)	kg	0,00		
Substitution of primary steel with net scrap (kg)	kg	2,29		
Substitution of thermal energy, district heating, in Norway (MJ)	MJ	57,14		

LCA: Results

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

Environme	ental impact							
<i>•</i>	Indicator	Unit		A1-A3	A4	A5	B2	B3
P	GWP-total	kg CO ₂ -	eq	5,37E+01	1,40E+00	5,12E+00	5,67E+00	2,54E-01
P	GWP-fossil	kg CO ₂ -	eq	6,00E+01	1,39E+00	5,38E-02	5,62E+00	2,52E-01
P	GWP-biogenic	kg CO ₂ -	eq	-6,38E+00	5,72E-04	5,07E+00	3,61E-02	1,62E-03
Ð	GWP-luluc	kg CO ₂ -	eq	6,41E-02	4,07E-04	1,64E-05	1,27E-02	5,74E-04
Ò	ODP	kg CFC11	-eq	4,92E-06	3,22E-07	1,05E-08	4,39E-07	1,95E-08
(All	AP	mol H+ -	eq	3,09E-01	5,86E-03	2,36E-04	3,22E-02	1,44E-03
	EP-FreshWater	kg P -ee	9	3,67E-03	1,06E-05	4,08E-07	5,47E-04	2,47E-05
	EP-Marine	kg N -e	q	6,67E-02	1,76E-03	8,19E-05	4,31E-03	1,91E-04
	EP-Terrestial	mol N -e	eq	6,80E-01	1,95E-02	8,43E-04	5,22E-02	2,32E-03
	POCP	kg NMVOC	-eq	2,31E-01	6,27E-03	2,43E-04	1,35E-02	5,94E-04
G.	ADP-minerals&metals ¹	kg Sb -e	p	1,50E-03	2,38E-05	1,20E-06	4,34E-05	1,69E-06
B	ADP-fossil ¹	MJ		8,53E+02	2,17E+01	6,98E-01	1,08E+02	4,87E+00
%	WDP ¹	m ³	m ³		1,66E+01	9,37E-01	1,51E+03	6,70E+01
	Indicator	Unit	B4	C1	C2	C3	C4	D
P	GWP-total	kg CO ₂ -eq	0	0	2,18E-01	7,98E+00	6,61E-02	-2,87E+00
P	GWP-fossil	kg CO ₂ -eq	0	0	2,17E-01	4,15E+00	6,61E-02	-2,85E+00
P	GWP-biogenic	kg CO ₂ -eq	0	0	8,87E-05	3,83E+00	5,03E-05	-2,08E-03
P	GWP-luluc	kg CO ₂ -eq	0	0	7,60E-05	4,18E-05	1,94E-05	-1,25E-02
Ò	ODP	kg CFC11 -eq	0	0	4,96E-08	2,70E-08	1,97E-08	-2,41E-02
Ê	АР	mol H+ -eq	0	0	8,89E-04	4,03E-03	4,54E-04	-1,54E-02
	EP-FreshWater	kg P -eq	0	0	1,71E-06	3,03E-06	6,73E-07	-1,85E-04
	EP-Marine	kg N -eq	0	0	2,64E-04	2,17E-03	1,61E-04	-3,49E-03
÷	EP-Terrestial	mol N -eq	0	0	2,92E-03	2,11E-02	1,79E-03	-3,62E-02
	РОСР	kg NMVOC -eq	0	0	8,93E-04	5,09E-03	5,13E-04	-1,53E-02
*#D	ADP-minerals&metals ¹	kg Sb -eq	0	0	5,89E-06	1,15E-06	1,10E-06	-5,36E-05
B	ADP-fossil ¹	MJ	0	0	3,28E+00	2,23E+00	1,46E+00	-2,60E+01
I								

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

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Additional er	Additional environmental impact indicators									
	Indicator	Unit	Unit			A5	B2	B3		
	PM	Disease incidence		4,54E-06	1,23E-07	3,50E-09	1,14E-07	4,75E-09		
(***) B	IRP ²	kgBq U235 -eq		3,21E+00	9,48E-02	2,99E-03	8,90E-01	4,03E-02		
æ.	ETP-fw ¹	CTUe		2,32E+03	1,59E+01	9,23E-01	8,66E+01	3,84E+00		
42. * ****	HTP-c ¹	CTUh		2,34E-07	0,00E+00	2,80E-11	2,79E-09	9,70E-11		
88 E	HTP-nc ¹	CTUh	CTUh		1,53E-08	1,15E-09	8,81E-08	3,37E-09		
\$	SQP ¹	dimensionless	dimensionless		2,49E+01	4,93E-01	2,53E+01	1,13E+00		
li	ndicator	Unit	Unit B4		C2	C3	C4	D		
	PM	Disease incidence	0	0	1,57E-08	2,88E-08	8,22E-09	-3,75E-07		
	IRP ²	kgBq U235 -eq	0	0	1,43E-02	4,18E-03	5,86E-03	-2,13E-02		
	ETP-fw ¹	CTUe	0	0	2,41E+00	1,60E+01	9,06E-01	-1,67E+02		
40.* *****	HTP-c ¹	CTUh	0	0	0,00E+00	7,35E-10	3,20E-11	-1,26E-08		
82 E	HTP-nc ¹	CTUh	0	0	2,61E-09	1,72E-08	9,19E-10	2,38E-07		
	SQP ¹	dimensionless	0	0	2,26E+00	3,16E-01	3,20E+00	-3,33E+01		

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

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

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

2. This impact category deals mainly with the eventual impact of low dose ionizing radiation on human health of the nuclear fuel cycle. It does not consider effects due to possible nuclear accidents, occupational exposure nor due to radioactive waste disposal in underground facilities. Potential ionizing radiation from the soil, from radon and from some construction materials is also not measured by this indicator.

Resource use								
	Indicator		Unit	A1-A3	A4	A5	B2	B3
i di seconda di second	PERE		MJ	2,02E+02	2,73E-01	1,17E-02	1,99E+01	9,05E-01
E C	PERM		MJ	5,33E+01	0,00E+00	-1,75E+01	0,00E+00	0,00E+00
्र	PERT		MJ	2,56E+02	2,73E-01	-1,75E+01	1,99E+01	9,05E-01
A	PENRE		MJ	8,35E+02	2,17E+01	6,98E-01	1,08E+02	4,88E+00
	PENRM		MJ	5,46E+01	0,00E+00	-2,97E+00	0,00E+00	0,00E+00
IA	PENRT		MJ	8,90E+02	2,17E+01	-2,27E+00	1,08E+02	4,88E+00
	SM		kg	4,87E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
1	RSF	MJ		1,67E+00	9,55E-03	3,84E-04	1,38E+00	6,27E-02
<u>M</u>	NRSF	MJ		2,65E+00	3,20E-02	1,56E-03	3,70E-01	1,51E-02
٢	FW		m ³		2,47E-03	3,31E-04	8,69E-01	3,99E-03
	ndicator	Unit	B4	C1	C2	C3	C4	D
i de la companya de l	PERE	MJ	0	0	4,63E-02	7,61E-02	2,85E-02	-3,10E+01
Ð	PERM	MJ	0	0	0,00E+00	-2,88E+01	0,00E+00	0,00E+00
° ₹ ₂	PERT	MJ	0	0	4,63E-02	-2,87E+01	2,85E-02	-3,10E+01
B	PENRE	MJ	0	0	3,28E+00	2,24E+00	1,46E+00	-2,60E+01
Å	PENRM	MJ	0	0	0,00E+00	-5,16E+01	0,00E+00	0,00E+00
IA	PENRT	MJ	0	0	3,28E+00	-4,94E+01	1,46E+00	-2,60E+01
	SM	kg	0	0	0,00E+00	0,00E+00	0,00E+00	-8,62E-05
					4.665.00	4 705 00		8,59E-02
2	RSF	MJ	0	0	1,66E-03	1,70E-03	7,51E-04	6,59E-02
	RSF	MJ	0	0	1,66E-03 5,91E-03	1,70E-03 0,00E+00	7,51E-04 4,48E-02	9,16E-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; PERT = Total use of renewable primary energy resources; PENRE = Use of non renewable primary energy resources; SM = Use of secondary materials; PERT = Total use of non renewable primary energy resources; SM = Use of secondary materials; REF = Use of renewable primary energy resources; SM = Use of secondary fuels; REF = Use of renewable primary energy resources; SM = Use of secondary fuels; REF = Use of renewable primary energy resources; SM = Use of non-renewable primary energy resources; SM = Use of secondary fuels; REF = Use of renewable primary energy resources; SM = Use of non-renewable primary energy resources; SM = Use of secondary fuels; REF = Use of renewable primary energy resources; SM = Use of non-renewable primary energy resources; SM = Use of secondary fuels; REF = Use of renewable primary energy resources; SM = Use of non-renewable primary energy resources; SM = Use of secondary fuels; REF = Use of renewable primary energy resources; SM = Use of non-renewable primary energy resources; SM = Use of secondary fuels; REF = Use of non-renewable primary energy resources; SM = Use of non-renewable primary energy ener

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

End of life - Waste									
	Indicator		Ui	nit	A1-A3	A4	A5	B2	B3
A	尚 HWD		k	g	5,96E-01	1,19E-03	0,00E+00	1,87E-02	8,39E-04
Ū	NHWD	kg		g	1,61E+01	1,89E+00	3,06E+00	4,24E-01	1,73E-02
R	RWD		kg		3,11E-03	1,48E-04	0,00E+00	7,21E-04	3,26E-05
In	dicator		Unit	B4	C1	C2	C3	C4	D
A	HWD		kg	0	0	1,67E-04	0,00E+00	5,61E+00	-1,33E-02
Ū	NHWD		kg	0	0	1,57E-01	5,50E-02	8,39E-02	-1,14E+00
2	RWD	RWD		0	0	2,24E-05	0,00E+00	8,94E-06	-1,79E-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										
Indi	icator		Unit	t	A1-A3	A4	A5	B2	B3	
Ô	CRU		kg		0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	
\$\$ \	MFR		kg		8,48E-01	0,00E+00	2,81E+00	0,00E+00	0,00E+00	
DF3	MER		kg		7,46E-05	0,00E+00	3,71E-04	0,00E+00	0,00E+00	
₹Þ	EEE		MJ		4,61E-01	0,00E+00	1,71E-01	0,00E+00	0,00E+00	
DØ	EET		MJ		6,97E+00	0,00E+00	2,58E+00	0,00E+00	0,00E+00	
Indicato	r	ι	Init	B4	C1	C2	C3	C4	D	
$\otimes \triangleright$	CRU		kg	0	0	0,00E+00	0,00E+00	0,00E+00	0,00E+00	
\$3D	MFR		kg	0	0	0,00E+00	2,86E+00	0,00E+00	-1,16E-05	
DF	MER		kg		0	0,00E+00	1,23E+01	0,00E+00	-1,40E-06	
50	EEE	l	μJ	0	0	0,00E+00	3,92E+00	0,00E+00	-8,81E-06	
DI	EET	I	MJ	0	0	0,00E+00	5,93E+01	0,00E+00	-1,33E-04	

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	9,35E-01							
Biogenic carbon content in accompanying packaging	kg C	1,38E+00							

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, high voltage, hydro (kWh) - PL	ecoinvent 3.6	4,02	g CO2-eq/kWh

Dangerous substances

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

Indoor environment

Additional Environmental Information

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		1,40E+00	0,00E+00	5,99E+00	2,69E-01
Indicator	Unit	B4	C1	C2	C3	C4	D
GWPIOBC	kg CO ₂ -eq	0	0	2,18E-01	4,49E+00	6,73E-02	-4,12E+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 (%)	
OFFECCT Ezy Barstool (Gabriel/Cura) - No Packaging	12,29	55,45	973,09	15,40	

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 (%)	
OFFECCT Ezy Barstool - Packaging	3,06	-1,72	68,77	97,60	

Key Environmental Indicators

Indicator	Unit	A1-A3	A4	A1-C4	A1-D
GWPtotal	kg CO ₂ -eq	53,73	1,40	74,43	71,56
Total energy consumption	MJ	1041,86	22,01	1207,55	1151,61
Amount of recycled materials	%	31,74			

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and norway	Program operator and publisher	Phone: +47 23 08 80 00
C epd-norway	The Norwegian EPD Foundation	e-mail: post@epd-norge.no
Global Program Operator	Post Box 5250 Majorstuen, 0303 Oslo, Norway	web: www.epd-norge.no
	Owner of the declaration:	Phone: 0047 98 25 68 30
l• l o l: l:	Flokk AS	e-mail: atle.messel@flokk.com
	Drammensveien 145,, 0277 Oslo	web: https://www.flokk.com
LCA	Author of the Life Cycle Assessment	Phone: +47 916 50 916
	LCA.no AS	e-mail: post@lca.no
	Dokka 6B, 1671	web: www.lca.no
\frown	Developer of EPD generator	Phone: +47 916 50 916
	LCA.no AS	e-mail: post@lca.no
no	Dokka 6B,1671 Kråkerøy	web: www.lca.no
ECO PLATFORM	ECO Platform	web: www.eco-platform.org
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