



# Environmental product declaration

in accordance with ISO 14025 and EN 15804+A2

# **Profim Snap**







Owner of the declaration:

Flokk AS

Product:

**Profim Snap** 

**Declared unit:** 

1 pc

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-7475-6861-EN

Registration number:

NEPD-7475-6861-EN

Issue date: 06.09.2024

Valid to: 06.09.2029

EPD software:

LCAno EPD generator ID: 473720

The Norwegian EPD Foundation



## **General information**

#### **Product**

**Profim Snap** 

#### **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-7475-6861-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 Profim Snap

#### Declared unit (cradle to gate) with option:

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

#### **Functional unit:**

Profim SNAP 21H - 4-legged metal frame w/o armrests and pads, upholstered in Xtreme/Camira - 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:

06.09.2024

#### Valid to:

06.09.2029

## Year of study:

2023

## **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:

Håkon Hauar

Managing Director of EPD-Norway



# **Product**

#### **Product description:**

Snap is a versatile chair designed for both work and relaxation, offering exceptional comfort paired with an elegant, timeless aesthetic. This chair represents Profim's next step in innovative furniture design and production. The collection was designed by the Swedish Note Design Studio, renowned for blending functionality with sophisticated design.

#### **Product specification**

The model studied in detail in this declaration is the Profim Snap 21H - 4-legged metal frame without armrests and pads, upholstered in Xtreme fabric from Camira, - including carton box packaging.

Materials	kg	%	Recycled share in material (kg)	Recycled share in material (%)
Plastic - Polyoxymethylene (POM)	0,01	0,03	0,00	0,00
Plastic - Polypropylene (PP)	2,06	11,84	1,91	92,79
Metal - Steel	7,16	41,17	1,42	19,79
Plastic - Polyethylene (LDPE)	0,04	0,25	0,00	0,00
Metal - Zinc	0,06	0,33	0,00	0,00
Plastic - Nylon (PA)	1,88	10,83	1,85	98,45
Textile - Polyester (PE)	2,93	16,87	2,51	85,57
Reinforcement	1,32	7,59	0,00	0,00
Plastic - Polyurethane (PUR)	1,85	10,64	0,00	0,00
Powder coating	0,08	0,46	0,00	0,00
Total	17,39	100,00	7,69	

Packaging	kg	%	Recycled share in material (kg)	Recycled share in material (%)
Recycled cardboard	3,43	71,82	3,43	100,00
Packaging - Wood	1,26	26,30	0,00	0,00
Packaging - Paper	0,01	0,10	0,00	34,31
Packaging - Plastic	0,08	1,77	0,00	0,00
Total incl. packaging	22,17	100,00	11,12	

#### Technical data:

The Snap armchair epitomizes comfort and style, designed to maximize user comfort. Collection offers two distinct aesthetics: the softer and more expressive Fluffy (21H) and the slim and delicate Slim (20H). Designed to support the body and promote well-being in the workplace, Snap enhances employee productivity. Created with sustainability in mind, Snap employs innovative technologies and environmentally friendly materials, minimizing the negative impact on the planet while maintaining high quality and durability. The seat is composed of up to 70% recycled polyamide, while the back is made of up to 75% recycled polypropylene.

#### Market:

Worldwide

#### Reference service life, product

5 years

Reference service life, building

### LCA: Calculation rules

## Declared unit:

1 pcs Profim Snap

#### **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:

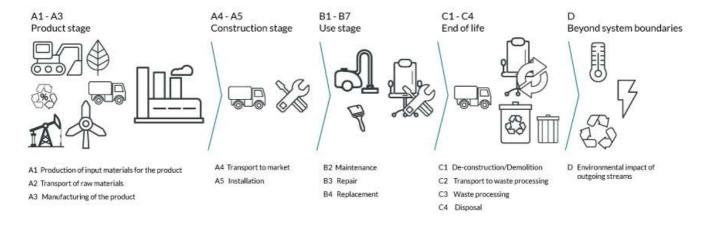
Specific data for the product composition are provided by the manufacturer. They represent the production of the declared product and were collected for EPD development in the year of study. Background data is based on registered EPDs according to EN 15804, Ostfold Research databases, ecoinvent and other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

Materials	Source	Data quality	Year
Metal - Steel	ecoinvent 3.6	Database	2019
Metal - Steel	Modified ecoinvent 3.6	Database	2019
Metal - Zinc	ecoinvent 3.6	Database	2019
Packaging - Paper	ecoinvent 3.6	Database	2019
Packaging - Plastic	ecoinvent 3.6	Database	2019
Packaging - Wood	ecoinvent 3.6	Database	2019
Plastic - Nylon (PA)	ecoinvent 3.6	Database	2019
Plastic - Polyethylene (LDPE)	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
Textile - Polyester (PE)	ecoinvent 3.6	Database	2019
Textile - Polyester (PE)	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	X	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 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	3,43			
Waste, packaging, paper printed, to average treatment (kg)	kg	0,01			
Waste, packaging, plastic film (LDPE), to average treatment - A5 (kg)	kg	0,08			
Waste, packaging, plastic tape, to average treatment (kg)	kg	0,00			
Waste, Wood, medium density fibreboard (MDF) average treatment (kg) - A5, inkl. 85 km transp.	kg	1,26			
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	1,46			
Waste treatment per kg Plastics, Mixture, municipal incineration with fly ash extraction (kg)	kg	1,88			
Waste treatment per kg Polyethylene, PE, incineration with fly ash extraction - C3 (kg)	kg	0,04			
Waste treatment per kg Polyoxymethylene (POM), incineration with fly ash extraction (kg) - CH - C3	kg	0,01			
Waste treatment per kg Polypropylene (PP), incineration with fly ash extraction - C3 (kg)	kg	2,06			
Waste treatment per kg Polyurethane (PU), incineration (kg)	kg	1,85			
Waste treatment per kg Scrap steel, incineration with fly ash extraction (kg)	kg	7,16			
Waste treatment per kg Textile, incineration with fly ash extraction (kg)	kg	2,93			
Waste, materials to recycling (kg)	kg	2,43			
Disposal (C4)	Unit	Value			
Landfilling of ashes and residues from incineration of Scrap steel (kg)	kg	4,73			
Landfilling of ashes from incineration of Non- hazardous waste, process per kg ashes and residues - C4 (kg)	kg	0,35			
Landfilling of ashes from incineration of Plastics, Mixture, municipal incineration with fly ash extraction, 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 Polyoxymethylene (POM), process per kg ashes and residues (kg) - CH - C4	kg	0,00			
Landfilling of ashes from incineration of Polypropylene, PP, process per kg ashes and residues - C4 (kg)	kg	0,06			
Landfilling of ashes from incineration of Polyurethane (PU), process per kg ashes and residues - C4 (kg)	kg	0,07			
Landfilling of ashes from incineration of Textile, soiled, process per kg ashes and residues (kg)	kg	0,15			



Benefits and loads beyond the system boundaries (D)	Unit	Value		
Substitution of electricity, in Norway (MJ)	MJ	12,46		
Substitution of primary steel with net scrap (kg)	kg	1,95		
Substitution of thermal energy, district heating, in Norway (MJ)	МЈ	188,50		



**LCA: Results** 

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

Environme	ntal impact								
	Indicator		Unit		A1-A3	A4	A5	B2	В3
	GWP-total	kg CO <sub>2</sub>		eq	5,00E+01	2,02E+00	8,06E+00	5,67E+00	2,54E-01
	GWP-fossil	kg C0		eq	5,68E+01	2,01E+00	9,61E-02	5,62E+00	2,52E-01
	GWP-biogenic		kg CO <sub>2</sub> -eq		-6,90E+00	8,27E-04	7,96E+00	3,61E-02	1,62E-03
	GWP-luluc		kg CO <sub>2</sub> -e	eq	7,26E-02	5,88E-04	2,76E-05	1,27E-02	5,74E-04
٨	ODP		kg CFC11	-eq	3,84E-06	4,66E-07	1,75E-08	4,39E-07	1,95E-08
Œ	AP		mol H+ -	eq	3,03E-01	8,47E-03	5,43E-04	3,22E-02	1,44E-03
	EP-FreshWater		kg P -ec	l	3,13E-03	1,54E-05	8,75E-07	5,47E-04	2,47E-05
	EP-Marine		kg N -ed	1	6,36E-02	2,55E-03	2,11E-04	4,31E-03	1,91E-04
<del></del>	EP-Terrestial		mol N -e	q	6,80E-01	2,82E-02	2,22E-03	5,22E-02	2,32E-03
	POCP		kg NMVOC	-eq	2,27E-01	9,06E-03	6,02E-04	1,35E-02	5,94E-04
	ADP-minerals&metals <sup>1</sup>		kg Sb-ed	7	6,91E-03	3,44E-05	1,94E-06	4,34E-05	1,69E-06
	ADP-fossil <sup>1</sup>		MJ		8,16E+02	3,13E+01	1,20E+00	1,08E+02	4,87E+00
<u>%</u>	WDP <sup>1</sup>		$m^3$		1,54E+04	2,40E+01	1,69E+00	1,51E+03	6,70E+01
	Indicator		Unit	B4	C1	C2	C3	C4	D
	GWP-total		kg CO <sub>2</sub> -eq	0	0	3,14E-01	2,26E+01	6,18E-02	-3,28E+00
	GWP-fossil		kg CO <sub>2</sub> -eq	0	0	3,14E-01	1,83E+01	6,17E-02	-3,24E+00
	GWP-biogenic		kg CO <sub>2</sub> -eq	0	0	1,28E-04	4,29E+00	6,17E-05	-3,44E-03
	GWP-Iuluc		kg CO <sub>2</sub> -eq	0	0	1,10E-04	1,24E-04	1,74E-05	-3,86E-02
Ö	ODP	ı	kg CFC11 -eq	0	0	7,16E-08	6,68E-08	1,75E-08	-7,96E-02
Œ	АР		mol H+ -eq	0	0	1,28E-03	7,09E-03	4,07E-04	-1,97E-02
<b>*</b>	EP-FreshWater		kg P -eq	0	0	2,47E-06	6,63E-06	6,45E-07	-2,29E-04
<b>*</b>	EP-Marine		kg N -eq	0	0	3,81E-04	3,68E-03	1,44E-04	-5,15E-03
<del>**</del>	EP-Terrestial		mol N -eq	0	0	4,21E-03	3,62E-02	1,60E-03	-5,44E-02
	POCP	k	g NMVOC -eq	0	0	1,29E-03	8,72E-03	4,58E-04	-1,95E-02
	ADP-minerals&metals <sup>1</sup>	kg Sb-eq		0	0	8,51E-06	2,81E-06	9,71E-07	-4,79E-05
	ADP-fossil <sup>1</sup>		MJ	0	0	4,74E+00	4,14E+00	1,30E+00	-3,37E+01
<u></u>	WDP <sup>1</sup>		$m^3$	0	0	4,52E+00	1,21E+00	3,20E+00	-8,34E+01

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

<sup>&</sup>quot;Reading example: 9,0 E-03 = 9,0\*10-3 = 0,009"

<sup>\*</sup>INA Indicator Not Assessed

<sup>1.</sup> 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 er	nvironmental impac							
	Indicator	Unit	Unit			A5	B2	В3
	PM	Disease incidence		3,79E-06	1,77E-07	7,35E-09	1,14E-07	4,75E-09
(101)	IRP <sup>2</sup>	kgBq U235 -eq		2,26E+00	1,37E-01	4,89E-03	8,90E-01	4,03E-02
	ETP-fw <sup>1</sup>	CTUe		2,20E+03	2,29E+01	1,52E+00	8,66E+01	3,84E+00
44. *** <u>B</u>	HTP-c <sup>1</sup>	CTUh		1,62E-07	0,00E+00	8,20E-11	2,79E-09	9,70E-11
4% B	HTP-nc <sup>1</sup>	CTUh		1,62E-06	2,22E-08	3,74E-09	8,81E-08	3,37E-09
	SQP <sup>1</sup>	dimensionless		3,56E+02	3,59E+01	7,92E-01	2,53E+01	1,13E+00
I	ndicator	Unit	B4	C1	C2	C3	C4	D
	PM	Disease incidence	0	0	2,26E-08	4,03E-08	7,28E-09	-7,24E-07
	IRP <sup>2</sup>	kgBq U235 -eq	0	0	2,07E-02	8,90E-03	5,26E-03	-9,21E-02
	ETP-fw <sup>1</sup>	CTUe	0	0	3,49E+00	3,54E+01	8,72E-01	-2,05E+02
AA 1-	1	CTUh	0	0	0,00E+00	1,40E-09	3,20E-11	-1,19E-08
40. ************************************	HTP-c <sup>1</sup>	Cron	Ů		,	,	-,	,
46	HTP-c'	CTUh	0	0	3,77E-09	4,23E-08	9,74E-10	1,43E-07

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)

<sup>&</sup>quot;Reading example: 9,0 E-03 = 9,0\*10-3 = 0,009"

<sup>\*</sup>INA Indicator Not Assessed

<sup>1.</sup> 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

<sup>2.</sup> 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.

# Flol: I:

Resource use									
	Indicator		U	nit	A1-A3	A4	A5	B2	В3
Ö	PERE		MJ		1,56E+02	3,94E-01	2,17E-02	1,99E+01	9,05E-01
	PERM		N	MJ	2,82E+01	0,00E+00	-2,82E+01	0,00E+00	0,00E+00
° <b>₹</b> ;	PERT		N	ΜJ	1,85E+02	3,94E-01	-2,82E+01	1,99E+01	9,05E-01
A	PENRE		N	MJ	6,59E+02	3,13E+01	1,20E+00	1,08E+02	4,88E+00
	PENRM		N	MJ	2,74E+02	0,00E+00	-3,57E+00	0,00E+00	0,00E+00
IA	PENRT		N	MJ	9,33E+02	3,13E+01	-2,37E+00	1,08E+02	4,88E+00
	SM		k	кg	1,11E+01	0,00E+00	0,00E+00	0,00E+00	0,00E+00
2	RSF		N	WJ	1,48E+00	1,38E-02	6,81E-04	1,38E+00	6,27E-02
	NRSF		N	ΜJ	4,59E-01	4,62E-02	4,51E-03	3,70E-01	1,51E-02
<u>%</u>	FW		n	n <sup>3</sup>	7,31E-01	3,57E-03	6,71E-04	8,69E-01	3,99E-03
Indi	cator	U	Jnit	B4	C1	C2	C3	C4	D
India	<b>cator</b> PERE		<b>Jnit</b> MJ	B4 0	C1 0	C2 6,68E-02	C3 1,81E-01	C4 2,71E-02	D -9,80E+01
		ı							
i de la companya de l	PERE	1	МЈ	0	0	6,68E-02	1,81E-01	2,71E-02	-9,80E+01
G B	PERE PERM	1	W1 W1	0	0	6,68E-02 0,00E+00	1,81E-01 0,00E+00	2,71E-02 0,00E+00	-9,80E+01 0,00E+00
<b>1</b> 5	PERE PERM PERT	1	MJ MJ	0 0	0 0	6,68E-02 0,00E+00 6,68E-02	1,81E-01 0,00E+00 1,81E-01	2,71E-02 0,00E+00 2,71E-02	-9,80E+01 0,00E+00 -9,80E+01
E E	PERE PERM PERT PENRE	1	MJ MJ	0 0 0	0 0 0	6,68E-02 0,00E+00 6,68E-02 4,74E+00	1,81E-01 0,00E+00 1,81E-01 4,34E+00	2,71E-02 0,00E+00 2,71E-02 1,30E+00	-9,80E+01 0,00E+00 -9,80E+01 -3,37E+01
	PERE PERM PERT PENRE PENRM	1	мл мл мл мл	0 0 0 0	0 0 0 0	6,68E-02 0,00E+00 6,68E-02 4,74E+00 0,00E+00	1,81E-01 0,00E+00 1,81E-01 4,34E+00 -2,70E+02	2,71E-02 0,00E+00 2,71E-02 1,30E+00 0,00E+00	-9,80E+01 0,00E+00 -9,80E+01 -3,37E+01 0,00E+00
	PERE PERM PERT PENRE PENRM PENRT		мл мл мл мл	0 0 0 0 0	0 0 0 0 0	6,68E-02 0,00E+00 6,68E-02 4,74E+00 0,00E+00 4,74E+00	1,81E-01 0,00E+00 1,81E-01 4,34E+00 -2,70E+02 -2,66E+02	2,71E-02 0,00E+00 2,71E-02 1,30E+00 0,00E+00 1,30E+00	-9,80E+01 0,00E+00 -9,80E+01 -3,37E+01 0,00E+00 -3,37E+01
	PERE PERM PERT PENRE PENRM PENRT SM		MJ MJ MJ MJ MJ	0 0 0 0 0 0	0 0 0 0 0 0	6,68E-02 0,00E+00 6,68E-02 4,74E+00 0,00E+00 4,74E+00 0,00E+00	1,81E-01 0,00E+00 1,81E-01 4,34E+00 -2,70E+02 -2,66E+02 0,00E+00	2,71E-02 0,00E+00 2,71E-02 1,30E+00 0,00E+00 1,30E+00 0,00E+00	-9,80E+01 0,00E+00 -9,80E+01 -3,37E+01 0,00E+00 -3,37E+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 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; 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

# Flol: l:

End of life - Waste									
	Indicator				A1-A3	A4	A5	B2	В3
	HWD	HWD		g	4,44E-01	1,72E-03	0,00E+00	1,87E-02	8,39E-04
Ī	NHWD		k	9	1,40E+01	2,73E+00	4,78E+00	4,24E-01	1,73E-02
<u>.</u>	RWD		k	g	2,08E-03	2,14E-04	0,00E+00	7,21E-04	3,26E-05
In	dicator		Unit	B4	C1	C2	C3	C4	D
	HWD		kg	0	0	2,42E-04	0,00E+00	5,11E+00	-1,19E-02
Ū	NHWD		kg	0	0	2,26E-01	1,46E+00	1,63E-01	-1,25E+00
æ	RWD		kg	0	0	3,23E-05	0,00E+00	8,39E-06	-7,59E-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	it	A1-A3	A4	A5	B2	В3
<b>@</b> D	CRU	kg	kg		0,00E+00	0,00E+00	0,00E+00	0,00E+00
&>	MFR	kg	ı	8,33E-01	0,00E+00	3,24E+00	0,00E+00	0,00E+00
Þ₹	MER	kg	ı	6,61E-06	0,00E+00	1,26E+00	0,00E+00	0,00E+00
50	EEE	M.	J	4,60E-01	0,00E+00	1,07E+00	0,00E+00	0,00E+00
<b>D</b>	EET	M.	J	6,97E+00	0,00E+00	1,62E+01	0,00E+00	0,00E+00
Indicato	or	Unit	B4	C1	C2	C3	C4	D
<b>∅</b> >	CRU	kg	0	0	0,00E+00	0,00E+00	0,00E+00	0,00E+00
\$>	MFR	kg	0	0	0,00E+00	2,43E+00	0,00E+00	0,00E+00
DF	MER	kg	0	0	0,00E+00	1,74E+01	0,00E+00	0,00E+00
50	EEE	МЈ	0	0	0,00E+00	1,12E+01	0,00E+00	0,00E+00
DØ	EET	MJ	0	0	0,00E+00	1,69E+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	0,00E+00						
Biogenic carbon content in accompanying packaging	kg C	2,17E+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	Source	Amount	Unit
Electricity, high voltage, hydro (kWh) - PL	ecoinvent 3.6	4,02	g CO2-eg/kWh

#### **Dangerous substances**

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

#### **Indoor environment**

EU Ecolabel, Möbelfakta, Greenguard Gold.

# **Additional Environmental Information**

#### **Key Environmental Indicators**

Key environmental indicators	Unit	A1-A3	A4	A1-C4	A1-D
GWPtotal	kg CO <sub>2</sub> -eq	50,01	2,02	88,98	85,70
Total energy consumption	MJ	817,67	31,79	997,19	862,13
Amount of recycled materials	%	50,15			

Additional environmental impact indicators required in NPCR Part A for construction products							
Indicator	Unit		A1-A3	A4	A5	B2	В3
GWPIOBC	kg CO <sub>2</sub> -eq	kg CO <sub>2</sub> -eq		2,02E+00	9,61E-02	5,99E+00	2,69E-01
Indicator	Unit	B4	C1	C2	C3	C4	D
GWPIOBC	kg CO <sub>2</sub> -eq	0	0	3,14E-01	2,15E+01	7,94E-02	-4,33E+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 <sub>2</sub> -eq)	Total energy consumption (MJ)	Amount of recycled materials (%)	
Profim SNAP 20H - 4-legged metal frame w/o armrests, Uph. (Xtreme/Camira) - No Packaging	15,98	49,38	679,74	37,27	
Profim SNAP 21H - 4-legged metal frame w/o armrests, Uph. (Xtreme/Camira) - No Packaging	17,39	53,31	693,96	44,24	

Key environmental indicators (A1-A3) for options for this EPD						
Options	Weight (kg)	GWPtotal (kg CO <sub>2</sub> -eq)	Total energy consumption (MJ)	Amount of recycled materials (%)		
Profim SNAP 20H / 21H - Armrests	1,22	2,96	37,47	19,61		
Profim SNAP 21H - Upholstered Pads (Xtreme/Camira)	1,95	7,98	78,25	78,49		
Profim SNAP 20H / 21H - Packaging	4,78	-3,30	123,71	71,82		



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