

# Environmental product declaration

in accordance with ISO 14025 and EN 15804+A2

# Create storage STCM570





**Owner of the declaration:** EFG European Furniture Group AB

**Product:** Create storage STCM570

**Declared unit:** 1 pcs

The Norwegian EPD Foundation

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-6174-5452-EN

**Registration number:** 

NEPD-6174-5452-EN

Issue date: 29.02.2024

Valid to: 29.02.2029

EPD software: LCAno EPD generator ID: 197551



## **General information**

**Product** Create storage STCM570

## 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-6174-5452-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 Create storage STCM570

Declared unit (cradle to gate) with option:

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

#### **Functional unit:**

## 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: 29.02.2024

Valid to: 29.02.2029

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: Andreas Mattisson

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

Approved:

Håkon Hauan, CEO EPD-Norge

## Product

## **Product description:**

Modular storage

## **Product specification**

## Modular storage

Materials	kg	%	Recycled share in material (kg)	Recycled share in material (%)
Metal - Steel	0,94	16,91	0,00	0,00
Plastic - Melamine	0,10	1,80	0,00	0,00
Wood - Chipboard	4,52	81,29	0,00	0,00
Total	5,56		0,00	

## Technical data:

Market:

Scandinavia

**Reference service life, product** 

15 years

Reference service life, building

## **LCA: Calculation rules**

## Declared unit:

1 pcs Create storage STCM570

## **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.

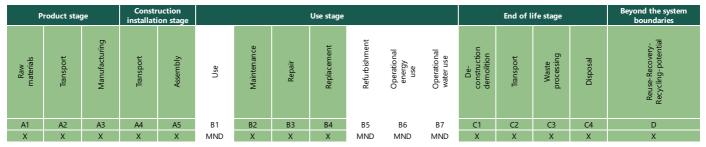
## Data quality:

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.

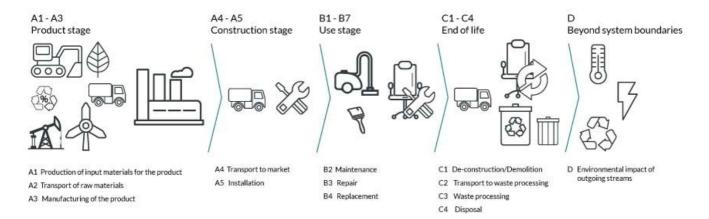
Materials	Source	Data quality	Year
Metal - Steel	ecoinvent 3.6	Database	2019
Plastic - Melamine	ecoinvent 3.6	Database	2019
Wood - Chipboard	ecoinvent 3.6	Database	2019

# e f e

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



## System boundary:



## Additional technical information:

Check out www.efg.se for caring instructions

# LCA: Scenarios and additional technical information

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

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
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	0,10			
Waste treatment per kg Scrap steel, incineration with fly ash extraction (kg)	kg	0,94			
Waste treatment per kg Wood, incineration with fly ash extraction (kg)	kg	4,52			
Waste, materials to recycling (kg)	kg	0,32			
Disposal (C4)	Unit	Value			
Landfilling of ashes and residues from incineration of Scrap steel (kg)	kg	0,62			
Landfilling of ashes from incineration of Non- hazardous waste, process per kg ashes and residues - C4 (kg)	kg	0,02			
Landfilling of ashes from incineration of Wood, process per kg ashes and residues (kg)	kg	0,05			
Benefits and loads beyond the system boundaries (D)	Unit	Value			
Substitution of electricity, in Norway (MJ)	MJ	3,20			
Substitution of primary steel with net scrap (kg)	kg	0,32			
Substitution of thermal energy, district heating, in Norway (MJ)	MJ	48,46			

# LCA: Results

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

	ental impact							
	Indicator		Unit		A4	A5	B2	B3
P	GWP-total	kg	CO <sub>2</sub> -eq	-9,76E-01	2,78E-01	0	0	0
P	GWP-fossil	kg	kg CO <sub>2</sub> -eq		2,78E-01	0	0	0
P	GWP-biogenic	kg	CO <sub>2</sub> -eq	-7,55E+00	1,13E-04	0	0	0
P	GWP-luluc	kg	CO <sub>2</sub> -eq	2,81E-02	9,72E-05	0	0	0
Ò	ODP	kg C	FC11 -eq	8,51E-07	6,34E-08	0	0	0
(F)	AP	mo	lH+ -eq	4,62E-02	1,14E-03	0	0	0
	EP-FreshWater	k	g P -eq	3,09E-04	2,18E-06	0	0	0
÷	EP-Marine	kç	g N -eq	9,21E-03	3,37E-04	0	0	0
	EP-Terrestial	m	ol N -eq	1,22E-01	3,73E-03	0	0	0
	POCP	kg N	MVOC -eq	4,00E-02	1,14E-03	0	0	0
Ð	ADP-minerals&metals <sup>1</sup>	kç	y Sb-eq	1,37E-04	7,53E-06	0	0	0
B	ADP-fossil <sup>1</sup>		MJ	1,27E+02	4,19E+00	0	0	0
<b>%</b>	WDP <sup>1</sup>		m <sup>3</sup>		4,00E+00	0	0	0
e				3,73E+03				
e e	Indicator	Unit	B4	C1	C2	C3	C4	D
P	Indicator GWP-total	<b>Unit</b> kg CO <sub>2</sub> -eq						
			B4	C1	C2	C3	C4	D
(J)	GWP-total	kg CO <sub>2</sub> -eq	B4 0	C1 0	C2 7,88E-02	C3 7,90E+00	C4 8,96E-03	D -6,42E-01
P	GWP-total GWP-fossil	kg CO <sub>2</sub> -eq kg CO <sub>2</sub> -eq	B4 0 0	C1 0 0	C2 7,88E-02 7,88E-02	C3 7,90E+00 2,94E-01	C4 8,96E-03 8,95E-03	D -6,42E-01 -6,32E-01
P P P	GWP-total GWP-fossil GWP-biogenic	kg CO <sub>2</sub> -eq kg CO <sub>2</sub> -eq kg CO <sub>2</sub> -eq	B4 0 0 0	C1 0 0 0	C2 7,88E-02 7,88E-02 3,21E-05	C3 7,90E+00 2,94E-01 7,60E+00	C4 8,96E-03 8,95E-03 6,27E-06	D -6,42E-01 -6,32E-01 -7,74E-04
P P P	GWP-total GWP-fossil GWP-biogenic GWP-luluc	kg CO <sub>2</sub> -eq kg CO <sub>2</sub> -eq kg CO <sub>2</sub> -eq kg CO <sub>2</sub> -eq	B4           0           0           0           0           0           0           0	C1 0 0 0 0	C2 7,88E-02 7,88E-02 3,21E-05 2,75E-05	C3 7,90E+00 2,94E-01 7,60E+00 1,37E-05	C4 8,96E-03 8,95E-03 6,27E-06 2,44E-06	D -6,42E-01 -6,32E-01 -7,74E-04 -9,83E-03
P P P P	GWP-total GWP-fossil GWP-biogenic GWP-luluc ODP	kg CO <sub>2</sub> -eq kg CO <sub>2</sub> -eq kg CO <sub>2</sub> -eq kg CO <sub>2</sub> -eq kg CFC11 -eq	B4       0       0       0       0       0       0       0       0       0	C1 0 0 0 0 0	C2 7,88E-02 7,88E-02 3,21E-05 2,75E-05 1,80E-08	C3 7,90E+00 2,94E-01 7,60E+00 1,37E-05 6,59E-09	C4 8,96E-03 8,95E-03 6,27E-06 2,44E-06 2,41E-09	D -6,42E-01 -6,32E-01 -7,74E-04 -9,83E-03 -2,05E-02
P P P D C	GWP-total GWP-fossil GWP-biogenic GWP-luluc ODP AP	kg CO <sub>2</sub> -eq kg CO <sub>2</sub> -eq kg CO <sub>2</sub> -eq kg CO <sub>2</sub> -eq kg CFC11 -eq mol H+ -eq	B4       0       0       0       0       0       0       0       0       0       0       0       0       0	C1 0 0 0 0 0 0 0	C2 7,88E-02 7,88E-02 3,21E-05 2,75E-05 1,80E-08 3,22E-04	C3 7,90E+00 2,94E-01 7,60E+00 1,37E-05 6,59E-09 7,74E-04	C4 8,96E-03 8,95E-03 6,27E-06 2,44E-06 2,41E-09 5,70E-05	D -6,42E-01 -6,32E-01 -7,74E-04 -9,83E-03 -2,05E-02 -4,06E-03
	GWP-total GWP-fossil GWP-biogenic GWP-luluc ODP AP EP-FreshWater	kg CO <sub>2</sub> -eq kg CO <sub>2</sub> -eq kg CO <sub>2</sub> -eq kg CO <sub>2</sub> -eq kg CFC11 -eq mol H+ -eq kg P -eq	B4       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0	C1 0 0 0 0 0 0 0 0	C2 7,88E-02 7,88E-02 3,21E-05 2,75E-05 1,80E-08 3,22E-04 6,19E-07	C3 7,90E+00 2,94E-01 7,60E+00 1,37E-05 6,59E-09 7,74E-04 1,23E-06	C4 8,96E-03 8,95E-03 6,27E-06 2,44E-06 2,41E-09 5,70E-05 9,56E-08	D -6,42E-01 -6,32E-01 -7,74E-04 -9,83E-03 -2,05E-02 -4,06E-03 -4,66E-05
	GWP-total GWP-fossil GWP-biogenic GWP-luluc ODP AP EP-FreshWater EP-Marine	kg CO <sub>2</sub> -eq kg CO <sub>2</sub> -eq kg CO <sub>2</sub> -eq kg CO <sub>2</sub> -eq kg CFC11 -eq mol H+ -eq kg P -eq kg N -eq	B4       0	C1 0 0 0 0 0 0 0 0 0 0	C2 7,88E-02 7,88E-02 3,21E-05 2,75E-05 1,80E-08 3,22E-04 6,19E-07 9,55E-05	C3 7,90E+00 2,94E-01 7,60E+00 1,37E-05 6,59E-09 7,74E-04 1,23E-06 3,64E-04	C4 8,96E-03 8,95E-03 6,27E-06 2,44E-06 2,41E-09 5,70E-05 9,56E-08 2,01E-05	D -6,42E-01 -6,32E-01 -7,74E-04 -9,83E-03 -2,05E-02 -4,06E-03 -4,66E-05 -1,12E-03
	GWP-total GWP-fossil GWP-biogenic GWP-luluc ODP AP EP-FreshWater EP-Marine EP-Terrestial	kg CO <sub>2</sub> -eq kg CO <sub>2</sub> -eq kg CO <sub>2</sub> -eq kg CO <sub>2</sub> -eq kg CFC11 -eq mol H+ -eq kg P -eq kg N -eq mol N -eq	B4         0	C1 0 0 0 0 0 0 0 0 0 0 0	C2 7,88E-02 3,21E-05 2,75E-05 1,80E-08 3,22E-04 6,19E-07 9,55E-05 1,06E-03	C3 7,90E+00 2,94E-01 7,60E+00 1,37E-05 6,59E-09 7,74E-04 1,23E-06 3,64E-04 3,86E-03	C4 8,96E-03 8,95E-03 6,27E-06 2,44E-06 2,41E-09 5,70E-05 9,56E-08 2,01E-05 2,23E-04	D -6,42E-01 -6,32E-01 -7,74E-04 -9,83E-03 -2,05E-02 -4,06E-03 -4,66E-05 -1,12E-03 -1,19E-02
	GWP-total GWP-fossil GWP-biogenic GWP-luluc ODP AP EP-FreshWater EP-Marine EP-Terrestial POCP	kg CO <sub>2</sub> -eq kg CO <sub>2</sub> -eq kg CO <sub>2</sub> -eq kg CC <sub>2</sub> -eq kg CFC11 -eq mol H+ -eq kg P -eq kg N -eq mol N -eq kg NMVOC -eq	B4         0	C1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	C2 7,88E-02 3,21E-05 2,75E-05 1,80E-08 3,22E-04 6,19E-07 9,55E-05 1,06E-03 3,23E-04	C3 7,90E+00 2,94E-01 7,60E+00 1,37E-05 6,59E-09 7,74E-04 1,23E-06 3,64E-04 3,86E-03 9,55E-04	C4 8,96E-03 8,95E-03 6,27E-06 2,44E-06 2,41E-09 5,70E-05 9,56E-08 2,01E-05 2,23E-04 6,38E-05	D -6,42E-01 -6,32E-01 -7,74E-04 -9,83E-03 -2,05E-02 -4,06E-03 -4,66E-05 -1,12E-03 -1,19E-02 -4,01E-03

GWP-total = Global Warming Potential total; GWP-fossil = Global Warming Potential fossil fuels; GWP-biogenic = Global Warming Potential biogenic; GWP-luluc = Global Warming Potential land use and land use change; ODP = Depletion potential of the stratospheric ozone layer; AP = Acidification potential, Accumulated Exceedance; EP-freshwater = Eutrophication potential, fraction of nutrients reaching freshwater end compartment: EP-marine = Eutrophication potential, fraction of nutrients reaching marine end compartment; EP-terrestrial = Eutrophication potential, Accumulated Exceedance; POCP = Formation potential of tropospheric ozone; ADP-minerals&metals = Abiotic depletion potential for non-fossil resources; ADP-fossil = Abiotic depletion for fossil resources potential; WDP = Water (user) deprivation potential, deprivation-weighted water consumption

"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 er	Additional environmental impact indicators									
	Indicator	Unit		A1-A3	A4	A5	B2	B3		
	PM	Disease incidence		9,08E-07	2,00E-08	0	0	0		
	IRP <sup>2</sup>	kgBq U235 -eq		1,44E+00	1,83E-02	0	0	0		
	ETP-fw <sup>1</sup>	CTUe		2,35E+02	3,09E+00	0	0	0		
44. ****	HTP-c <sup>1</sup>	CTUh		3,98E-08	0,00E+00	0	0	0		
4 <u>6</u>	HTP-nc <sup>1</sup>	CTUh		1,60E-07	3,34E-09	0	0	0		
è	SQP <sup>1</sup>	dimensionless	dimensionless		2,89E+00	0	0	0		
h	ndicator	Unit	B4	C1	C2	C3	C4	D		
	PM	Disease incidence	0	0	5,67E-09	9,20E-09	1,01E-09	-1,69E-07		
	IRP <sup>2</sup>	kgBq U235 -eq	0	0	5,19E-03	1,15E-03	7,35E-04	-2,44E-02		
	ETP-fw <sup>1</sup>	CTUe	0	0	8,75E-01	1,85E+00	1,27E-01	-4,14E+01		
40.× ****	HTP-c <sup>1</sup>	CTUh	0	0	0,00E+00	2,21E-10	5,00E-12	-2,09E-09		
88 E	HTP-nc <sup>1</sup>	CTUh	0	0	9,45E-10	8,42E-09	1,49E-10	1,57E-08		
	SQP <sup>1</sup>	dimensionless	0	0	8,19E-01	8,48E-02	4,11E-01	-2,71E+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.

# e f e

Resource use									
	Indicator		Ur	nit	A1-A3	A4	A5	B2	B3
i. B	PERE		N	IJ	4,41E+01	5,92E-02	0	0	0
a de la dela de la dela dela dela dela d	PERM		N	IJ	4,02E+01	0,00E+00	0	0	0
×.	PERT		N	IJ	8,43E+01	5,92E-02	0	0	0
B	PENRE		N	IJ	1,27E+02	4,19E+00	0	0	0
.Åø	PENRM		N	IJ	0,00E+00	0,00E+00	0	0	0
IA	PENRT		N	IJ	1,27E+02	4,19E+00	0	0	0
	SM		k	g	0,00E+00	0,00E+00	0	0	0
L.	RSF		N	IJ	2,50E-01	2,12E-03	0	0	0
Ū.	NRSF		N	IJ	2,37E+00	7,56E-03	0	0	0
(96)	FW		m	1 <sup>3</sup>	1,46E-01	4,42E-04	0	0	0
	ndicator	Uni	nit	B4	C1	C2	C3	C4	D
î, B	PERE	Uni MJ		B4 0	C1 0	C2 1,68E-02	C3 2,07E-02	C4 3,99E-03	D -2,51E+01
in the second se			IJ						
	PERE	MJ	n n	0	0	1,68E-02	2,07E-02	3,99E-03	-2,51E+01
A.	PERE	rw I	n n n	0 0	0	1,68E-02 0,00E+00	2,07E-02 -4,02E+01	3,99E-03 0,00E+00	-2,51E+01 0,00E+00
<b>2</b> 47	PERE PERM PERT	נא נא נא	n n n	0 0 0	0 0 0	1,68E-02 0,00E+00 1,68E-02	2,07E-02 -4,02E+01 -4,02E+01	3,99E-03 0,00E+00 3,99E-03	-2,51E+01 0,00E+00 -2,51E+01
<b>ک</b> چین ک	PERE PERM PERT PENRE	נא נא נא	n n n	0 0 0 0	0 0 0 0	1,68E-02 0,00E+00 1,68E-02 1,19E+00	2,07E-02 -4,02E+01 -4,02E+01 5,37E-01	3,99E-03 0,00E+00 3,99E-03 1,81E-01	-2,51E+01 0,00E+00 -2,51E+01 -6,97E+00
یک چی ایک ایک	PERE PERM PERT PENRE PENRM	rw rw rw rw	n n n n n	0 0 0 0	0 0 0 0	1,68E-02 0,00E+00 1,68E-02 1,19E+00 0,00E+00	2,07E-02 -4,02E+01 -4,02E+01 5,37E-01 0,00E+00	3,99E-03 0,00E+00 3,99E-03 1,81E-01 0,00E+00	-2,51E+01 0,00E+00 -2,51E+01 -6,97E+00 0,00E+00
	PERE PERM PERT PENRE PENRM PENRT	ίΜ ίΜ ίΜ ίΜ ίΜ	a n n n n n	0 0 0 0 0	0 0 0 0 0	1,68E-02 0,00E+00 1,68E-02 1,19E+00 0,00E+00 1,19E+00	2,07E-02 -4,02E+01 -4,02E+01 5,37E-01 0,00E+00 5,37E-01	3,99E-03 0,00E+00 3,99E-03 1,81E-01 0,00E+00 1,81E-01	-2,51E+01 0,00E+00 -2,51E+01 -6,97E+00 0,00E+00 -6,97E+00
	PERE PERM PERT PENRE PENRM PENRT SM	MJ MJ MJ MJ MJ kg	n n n n n n n	0 0 0 0 0 0 0	0 0 0 0 0 0 0	1,68E-02 0,00E+00 1,68E-02 1,19E+00 0,00E+00 1,19E+00 0,00E+00	2,07E-02 -4,02E+01 -4,02E+01 5,37E-01 0,00E+00 5,37E-01 0,00E+00	3,99E-03 0,00E+00 3,99E-03 1,81E-01 0,00E+00 1,81E-01 0,00E+00	-2,51E+01 0,00E+00 -2,51E+01 -6,97E+00 0,00E+00 -6,97E+00 0,00E+00

PERE = Use of renewable primary energy excluding renewable primary energy resources used as raw materials; PERM = Use of renewable primary energy resources used as raw materials; PERT = Total use of renewable primary energy resources; PENRE = Use of non renewable primary energy excluding non-renewable primary energy resources used as raw materials; 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		Unit		A1-A3	A4	A5	B2	B3
ā	HWD		kg		2,59E-02	2,14E-04	0	0	0
⊡	NHWD	kg		1,97E+00	2,00E-01	0	0	0	
<b>B</b>	RWD		kg		8,15E-04	2,86E-05	0	0	0
Inc	dicator		Unit	B4	C1	C2	C3	C4	D
	HWD		kg	0	0	6,06E-05	0,00E+00	6,76E-01	-2,01E-03
Ū	NHWD		kg	0	0	5,68E-02	1,00E-01	2,11E-02	-2,38E-01
æ	RWD		kg	0	0	8,10E-06	0,00E+00	1,11E-06	-2,01E-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		Unit	:	A1-A3	A4	A5	B2	B3		
$\langle \hat{\varphi} \rangle$	CRU		kg		0,00E+00	0,00E+00	0	0	0		
\$\$ <b>\</b>	MFR		kg		0,00E+00	0,00E+00	0	0	0		
DF	MER		kg		0,00E+00	0,00E+00	0	0	0		
50	EEE		MJ		0,00E+00	0,00E+00	0	0	0		
DI	EET		MJ		0,00E+00	0,00E+00	0	0	0		
Indicato	or	Unit		B4	C1	C2	C3	C4	D		
$\otimes$	CRU	kg		0	0	0,00E+00	0,00E+00	0,00E+00	0,00E+00		
\$	MFR	kg		0	0	0,00E+00	3,19E-01	0,00E+00	0,00E+00		
D77	MER	kg		0	0	0,00E+00	5,56E+00	0,00E+00	0,00E+00		
₽Þ	EEE	MJ		0	0	0,00E+00	3,17E+00	0,00E+00	0,00E+00		
	EET	MJ		0	0	0,00E+00	4,80E+01	0,00E+00	0,00E+00		

CRU = Components for re-use; MFR = Materials for recycling; MER = Materials for energy recovery; EEE = Exported energy electrical; EET = Exported energy thermal

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

Biogenic Carbon Content

Indicator	Unit	At the factory gate					
Biogenic carbon content in product	kg C	2,49E+00					
Biogenic carbon content in accompanying packaging	kg C	0,00E+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, 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 <sub>2</sub> -eq	-0,98	0,28	7,29	6,64
Total energy consumption	MJ	173,52	4,26	179,75	146,64
Amount of recycled materials	%	0,00			

Additional environmental impact indicators required in NPCR Part A for construction products								
Indicator	Unit		A1-A3	A4	A5	B2	B3	
GWPIOBC	kg CO <sub>2</sub> -eq	kg CO <sub>2</sub> -eq		2,78E-01	0	0	0	
Indicator	Unit	B4	C1	C2	C3	C4	D	
GWPIOBC	kg CO <sub>2</sub> -eq	0	0	7,88E-02	1,87E-01	9,24E-03	-8,13E-01	

GWP-IOBC: Global warming potential calculated according to the principle of instantaneous oxidation. In order to increase the transparency of biogenic carbon contribution to climate impact, the indicator GWP-IOBC is required as it declares climate impacts calculated according to the principle of instantaneous oxidation. GWP-IOBC is also referred to as GWP-GHG in context to Swedish public procurement legislation.

# Bibliography

ISO 14025:2010 Environmental labels and declarations - Type III environmental declarations - Principles and procedures. ISO 14044:2006 Environmental management - Life cycle assessment - Requirements and guidelines.

EN 15804:2012 + A2:2019 Environmental product declaration - Core rules for the product category of construction products.

ISO 21930:2017 Sustainability in buildings and civil engineering works - Core rules for environmental product declarations of construction products.

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

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

NPCR Part A: Construction products and services. Ver. 2.0. March 2021, EPD-Norge. NPCR 026 Part B for Furniture. Ver. 2.0 March 2022, EPD-Norge.

and 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:
<b>efe</b>	EFG European Furniture Group AB	e-mail: christer.johansson@efg.se
	1	web: https://www.efg.se
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
ECD PLATFORM	ECO Platform	web: www.eco-platform.org
	ECO Portal	web: ECO Portal