

Owner: Keflico A/S  
No.: MD-24072-EN  
Issued: 24-09-2024  
Valid to: 24-09-2029

3<sup>rd</sup> PARTY VERIFIED

**EPD**

VERIFIED ENVIRONMENTAL PRODUCT DECLARATION | ISO 14025 & EN 15804



**Owner of declaration**

Keflico A/S  
 Juelstrupparken 24, 9530 støvring,  
 Denmark  
 23 98 00 10



**Issued:**  
 24-09-2024

**Valid to:**  
 24-09-2029

**Programme**

EPD Danmark  
[www.epddanmark.dk](http://www.epddanmark.dk)



- Industry EPD
- Product EPD

**Basis of calculation**

This EPD is developed and verified in accordance with the European standard EN 15804+A2.

**Comparability**

EPDs of construction products may not be comparable if they do not comply with the requirements in EN 15804. EPD data may not be comparable if the datasets used are not developed in accordance with EN 15804 and if the background systems are not based on the same database.

**Validity**

This EPD has been verified in accordance with ISO 14025 and is valid for 5 years from the date of issue.

**Use**

The intended use of an EPD is to communicate scientifically based environmental information for construction products, for the purpose of assessing the environmental performance of buildings.

**EPD type**

- Cradle-to-gate with modules C1-C4 and D
- Cradle-to-gate with options, modules C1-C4 and D
- Cradle-to-grave and module D
- Cradle-to-gate
- Cradle-to-gate with options

**Declared product(s)**

Sawn, dried and moulded tropical hardwood from FSC®/PEFC certified forests in the amazon rainforest in South America..

Sawn and dried tropical hardwood from FSC®/PEFC certified forests in the amazon rainforest in South America.

Number of declared datasets/product variations: 1

**Production site**

Retorno St. H - Distrito Industrial, Ananindeua - PA, Brasilien

**Use of Guarantees of Origin**

- No certificates used
- Electricity covered by GoO
- Biogas covered by GoO

**Declared/ functional unit**

1 m<sup>3</sup>

**Year of production site data (A3)**

2022

**EPD version**

First version

CEN standard EN 15804 serves as the core PCR

Independent verification of the declaration and data, according to EN ISO 14025

- internal
- external

Third party verifier:

Kim Christiansen

Martha Katrine Sørensen  
 EPD Danmark

**Life cycle stages and modules (MND = module not declared)**

Product			Construction process		Use								End of life				Beyond the system boundary
Raw material supply	Transport	Manufacturing	Transport	Installation process	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	De-construction demolition	Transport	Waste processing	Disposal	Re-use, recovery and recycling potential	
A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D	
X	X	X	MND	MND	MND	MND	MND	MND	MND	MND	MND	X	X	X	X	X	

# Product information

## Product description

The main product components are shown in the table below.

Material	Weight-% of declared product
Bio-based material	100%

## Product packaging:

The composition of the sales- and transport packaging of the product is shown in the table below.

Material	Weight of packaging material (kg)	Weight-% of packaging
PE-Plastics	0,46	100%
Total	0,46	100%

## Representativity

This declaration, including data collection and the modeled foreground system including results, represents the production of hardwood boards on the production site located in Pará Brazil. Product specific data are based on specific values collected in the period year 2022. Background data are based on Gabi Database and are less than 10 years old. Generally, the used background datasets are of high quality, and all of the datasets are only a couple of years old.

## Hazardous substances

Products does not contain substances listed on the "Candidate List of Substances of Very High Concern for authorization"

## Product(s) use

Tropical Hardwood boards to be used as flooring and cladding.

## Essential characteristics

High quality, high density tropical hardwood boards from FSC® and PEFC certified forests in the amazon rainforest in South America.

## Reference Service Life (RSL)

Picture of product(s)



Product: Sawn and Dried, Tropical Hardwood Boards

Product: Sawn, Dried and Moulded, Tropical Hardwood Boards

## LCA background

### Declared unit

The LCI and LCIA results in this EPD relates to 1 m<sup>3</sup> of tropical, high density hardwood boards sourced from Pará region in Brazil.

Name	Value	Unit
Declared unit	1	M <sup>3</sup>
Density	910	kg/m <sup>3</sup>
Conversion factor to 1 kg.	0,00109	M <sup>3</sup> /kg

### Functional unit

1m<sup>3</sup> of hardwood boards in various lengths

### PCR

This EPD is developed according to the core rules for the product category of construction products in EN 15804, and EN 16485:2014.

### Energy modelling principles

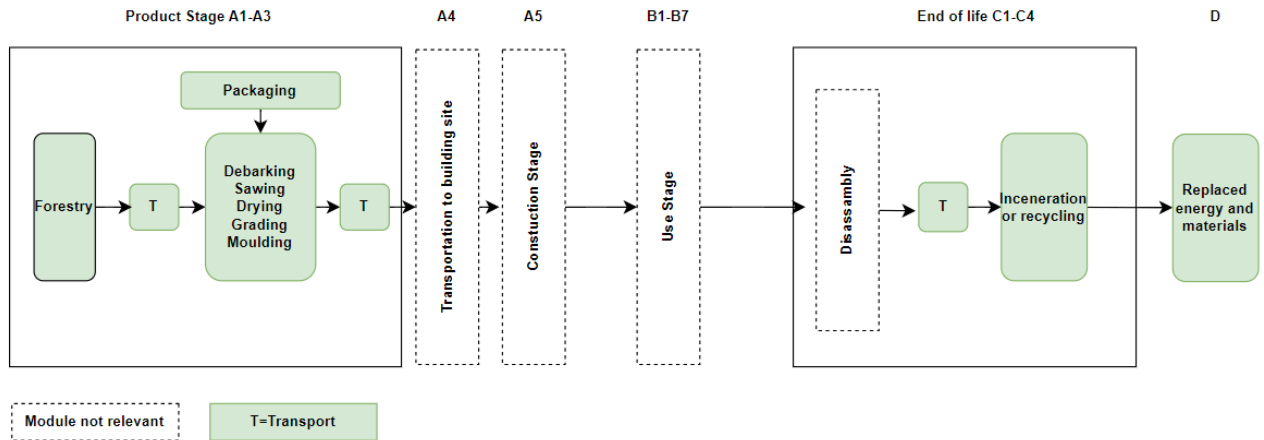
Foreground system:

Energy processes are modelled using national mix type.

Background system:

Energy processes are modelled using the national mix type.

## Flowdiagram



Flow diagram of the product chain with relevant modules highlighted.

### System boundary

This EPD is based on a cradle-to-gate LCA, in which 100 weight-% has been accounted for.

The general rules for the exclusion of inputs and outputs follows the requirements in EN 15804, 6.3.5, where the total of neglected input flows per module shall be a maximum of 5 % of energy usage and mass and 1 % of energy usage and mass for unit processes.

### Product stage (A1-A3) includes:

- A1 – Extraction and processing of raw materials
- A2 – Transport to the production site
- A3 – Manufacturing processes

The product stage comprises the acquisition of raw materials, production and energy, and transport to the production site, packaging and shipping to Denmark.

### Construction process stage (A4-A5) includes:

This EDP does not cover this stage.

**Use stage (B1-B7) includes:**

This EDP does not cover this phase.

**End of Life (C1-C4) includes:**

C1 - Deconstruction and demolition manual deconstruction assumed with a zero emission. Included and left blank.

C2 - An average distance of 100 km has been assumed to nearest treatment.

C3 - Pure wood waste is produced while dismantling the product, this is recycled to wood chips in module D.

C4 - Incineration Scenario accounts for 100% material to energy recovery by incineration.

None of the material is set for disposal due to the natural high recovery and reuse rate of the material.

**Re-use, recovery and recycling potential (D) includes:**

D - Recycle Scenario, sends 100% of the material to recycling and includes the benefits of recycling the wood waste into woodchips to be used in particle boards. Despite the lower biogenic carbon content, the replacement product is set as birch woodchips. This is due to the low chance that the woodchips replace other hardwood woodchips.

# Product Summeries

## Sawn, Dried and Moulded Tropical hardwood boards (kg CO<sub>2</sub> eq)

Incineration total  
2.31E+02

Recycle total  
-1.19E+03

## Sawn and Dried Tropical hardwood boards (kg CO<sub>2</sub> eq)

Incineration total  
2.26E+02

Recycle total  
-1.20E+03

# LCA results – Incineration

ENVIRONMENTAL IMPACTS PER M3									
Indicator	Unit	A1	A2	A3	C1	C2	C3	C4	D
GWP-total	kg CO <sub>2</sub> eq.	-2.35E+03	9.73E+01	1.05E+03	0.00E+00	7.81E+00	0.00E+00	1.43E+03	0.00E+00
GWP-fossil	kg CO <sub>2</sub> eq.	3.91E+00	7.75E+01	1.97E+02	0.00E+00	7.89E+00	0.00E+00	-2.23E+02	0.00E+00
GWP-biogenic	kg CO <sub>2</sub> eq.	-2.35E+03	-2.18E+00	8.32E+02	0.00E+00	-2.25E-01	0.00E+00	1.65E+03	0.00E+00
GWP-luluc	kg CO <sub>2</sub> eq.	1.21E+00	2.19E+01	1.67E+01	0.00E+00	1.47E-01	0.00E+00	-2.86E-01	0.00E+00
ODP	kg CFC 11 eq.	1.48E-12	1.27E-11	5.55E-10	0.00E+00	2.41E-12	0.00E+00	-3.85E-09	0.00E+00
AP	mol H <sup>+</sup> eq.	1.11E-02	5.52E-01	2.09E+00	0.00E+00	4.49E-02	0.00E+00	-1.60E+00	0.00E+00
EP-freshwater	kg P eq.	1.04E-04	1.79E-03	1.93E-03	0.00E+00	2.08E-05	0.00E+00	-2.07E-02	0.00E+00
EP-marine	kg N eq.	4.42E-03	2.94E-01	8.17E-01	0.00E+00	2.20E-02	0.00E+00	-4.33E-01	0.00E+00
EP-terrestrial	mol N eq.	3.54E-02	2.99E+00	8.72E+00	0.00E+00	2.45E-01	0.00E+00	-3.71E+00	0.00E+00
POCP	kg NMVOC eq.	1.15E-02	7.33E-01	3.49E+00	0.00E+00	4.37E-02	0.00E+00	-6.23E-01	0.00E+00
ADPm <sup>1</sup>	kg Sb eq.	7.70E-07	1.23E-05	3.11E-05	0.00E+00	1.30E-06	0.00E+00	-3.28E-04	0.00E+00
ADPF <sup>1</sup>	MJ	2.05E+02	2.25E+03	3.98E+03	0.00E+00	1.00E+02	0.00E+00	-4.02E+03	0.00E+00
WDP <sup>1</sup>	m <sup>3</sup> world eq. deprived	1.11E-01	9.63E-01	5.74E+01	0.00E+00	5.48E-02	0.00E+00	1.38E+02	3.91E-01
Caption	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 = Ozone Depletion; AP = Acidification; EP-freshwater = Eutrophication – aquatic freshwater; EP-marine = Eutrophication – aquatic marine; EP-terrestrial = Eutrophication – terrestrial; POCP = Photochemical zone formation; ADPm = Abiotic Depletion Potential – minerals and metals; ADPF = Abiotic Depletion Potential – fossil fuels; WDP = water use								
Disclaimer	<sup>1</sup> The results of this environmental indicator shall be used with care as the uncertainties on these results are high or as there is limited experienced with the indicator.								

ADDITIONAL ENVIRONMENTAL IMPACTS PER M3									
Parameter	Unit	A1	A2	A3	C1	C2	C3	C4	D
PM	Disease incidence	1.13E-07	1.27E-05	1.42E-04	1.98E-07	0.00E+00	0.00E+00	1.68E-05	0.00E+00
IRP <sup>2</sup>	kBq U235 eq.	1.20E-02	1.63E-01	2.24E+00	1.68E-02	0.00E+00	0.00E+00	5.80E-01	0.00E+00
ETP-fw <sup>1</sup>	CTUe	3.84E+02	3.94E+03	5.79E+03	7.78E+01	0.00E+00	0.00E+00	5.97E+01	0.00E+00
HTP-c <sup>1</sup>	CTUh	5.89E-09	6.05E-08	1.24E-07	1.55E-09	0.00E+00	0.00E+00	4.14E-09	0.00E+00
HTP-nc <sup>1</sup>	CTUh	9.02E-08	9.37E-07	2.83E-06	6.54E-08	0.00E+00	0.00E+00	6.27E-08	0.00E+00
SQP1	-	1.34E+02	2.41E+03	2.95E+03	6.67E+01	0.00E+00	0.00E+00	1.27E+04	0.00E+00
Caption	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								
Disclaimers	<sup>1</sup> The results of this environmental 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.								

RESOURCE USE PER M3									
Parameter	Unit	A1	A2	A3	C1	C2	C3	C4	D
PERE	MJ	1.58E+01	2.43E+02	1.75E+03	1.11E+01	0.00E+00	0.00E+00	1.49E+04	0.00E+00
PERM	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PERT	MJ	1.58E+01	2.43E+02	1.75E+03	1.11E+01	0.00E+00	0.00E+00	1.49E+04	0.00E+00
PENRE	MJ	2.05E+02	2.25E+03	3.98E+03	1.00E+02	0.00E+00	0.00E+00	9.92E+01	0.00E+00
PENRM	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PENRT	MJ	2.05E+02	2.25E+03	3.98E+03	1.00E+02	0.00E+00	0.00E+00	9.92E+01	0.00E+00
SM	Kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NRSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FW	m <sup>3</sup>	2.23E-02	2.41E-01	6.36E+00	1.04E-02	0.00E+00	0.00E+00	6.42E-02	0.00E+00
Caption	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; 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 material; RSF = Use of renewable secondary fuels; NRSF = Use of non renewable secondary fuels; FW = Net use of fresh water								

Parameter	Unit	A1	A2	A3	C1	C2	C3	C4	D
HWD	Kg	8.39E-09	1.02E-07	1.32E-06	0.00E+00	4.88E-09	0.00E+00	-5.94E-06	0.00E+00
NHWD	Kg	2.21E-02	3.71E-01	3.03E+00	0.00E+00	1.70E-02	0.00E+00	2.03E+01	0.00E+00
RWD	Kg	1.47E-04	1.84E-03	3.17E-02	0.00E+00	1.60E-04	0.00E+00	-6.12E-01	0.00E+00
CRU	Kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MFR	Kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MER	Kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EEE	MJ	0.00E+00	0.00E+00	3.25E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EET	MJ	0.00E+00	0.00E+00	7.61E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Caption	HWD = Hazardous waste disposed; NHWD = Non-hazardous waste disposed; RWD = Radioactive waste disposed; CRU = Components for re-use; MFR = Materials for recycling; MER = Materials for energy recovery; EEE = Exported electrical energy; EET = Exported thermal energy								



# LCA results – Recycle

ENVIRONMENTAL IMPACTS PER M3									
Indicator	Unit	A1	A2	A3	C1	C2	C3	C4	D
GWP-total	kg CO <sub>2</sub> eq.	-2.35E+03	9.73E+01	1.05E+03	0.00E+00	7.81E+00	1.68E+03	0.00E+00	-1.66E+03
GWP-fossil	kg CO <sub>2</sub> eq.	3.91E+00	7.75E+01	1.97E+02	0.00E+00	7.89E+00	0.00E+00	0.00E+00	6.34E+00
GWP-biogenic	kg CO <sub>2</sub> eq.	-2.35E+03	-2.18E+00	8.32E+02	0.00E+00	-2.25E-01	1.67E+03	0.00E+00	-1.67E+03
GWP-luluc	kg CO <sub>2</sub> eq.	1.21E+00	2.19E+01	1.67E+01	0.00E+00	1.47E-01	0.00E+00	0.00E+00	7.75E-02
ODP	kg CFC 11 eq.	1.48E-12	1.27E-11	5.55E-10	0.00E+00	2.41E-12	0.00E+00	0.00E+00	2.15E-11
AP	mol H <sup>+</sup> eq.	1.11E-02	5.52E-01	2.09E+00	0.00E+00	4.49E-02	0.00E+00	0.00E+00	4.98E-02
EP-freshwater	kg P eq.	1.04E-04	1.79E-03	1.93E-03	0.00E+00	2.08E-05	0.00E+00	0.00E+00	4.01E-05
EP-marine	kg N eq.	4.42E-03	2.94E-01	8.17E-01	0.00E+00	2.20E-02	0.00E+00	0.00E+00	2.40E-02
EP-terrestrial	mol N eq.	3.54E-02	2.99E+00	8.72E+00	0.00E+00	2.45E-01	0.00E+00	0.00E+00	2.62E-01
POCP	kg NMVOC eq.	1.15E-02	7.33E-01	3.49E+00	0.00E+00	4.37E-02	0.00E+00	0.00E+00	1.68E-01
ADPm <sup>1</sup>	kg Sb eq.	7.70E-07	1.23E-05	3.11E-05	0.00E+00	1.30E-06	0.00E+00	0.00E+00	9.63E-07
ADPf <sup>1</sup>	MJ	2.05E+02	2.25E+03	3.98E+03	0.00E+00	1.00E+02	0.00E+00	0.00E+00	9.92E+01
WDP <sup>1</sup>	m <sup>3</sup> world eq. deprived	1.11E-01	9.63E-01	5.74E+01	0.00E+00	5.48E-02	0.00E+00	0.00E+00	3.91E-01
Caption	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 = Ozone Depletion; AP = Acidification; EP-freshwater = Eutrophication – aquatic freshwater; EP-marine = Eutrophication – aquatic marine; EP-terrestrial = Eutrophication – terrestrial; POCP = Photochemical zone formation; ADPm = Abiotic Depletion Potential – minerals and metals; ADPf = Abiotic Depletion Potential – fossil fuels; WDP = water use								
Disclaimer	<sup>1</sup> The results of this environmental indicator shall be used with care as the uncertainties on these results are high or as there is limited experienced with the indicator.								

ADDITIONAL ENVIRONMENTAL IMPACTS PER M3									
Parameter	Unit	A1	A2	A3	C1	C2	C3	C4	D
PM	Disease incidence	1.13E-07	1.27E-05	1.42E-04	1.98E-07	0.00E+00	-1.50E-05	0.00E+00	1.13E-07
IRP <sup>2</sup>	kBq U235 eq.	1.20E-02	1.63E-01	2.24E+00	1.68E-02	0.00E+00	-5.61E+01	0.00E+00	1.20E-02
ETP-fw <sup>1</sup>	CTUe	3.84E+02	3.94E+03	5.79E+03	7.78E+01	0.00E+00	-9.04E+03	0.00E+00	3.84E+02
HTP-c <sup>1</sup>	CTUh	5.89E-09	6.05E-08	1.24E-07	1.55E-09	0.00E+00	-8.63E-08	0.00E+00	5.89E-09
HTP-nc <sup>1</sup>	CTUh	9.02E-08	9.37E-07	2.83E-06	6.54E-08	0.00E+00	3.90E-06	0.00E+00	9.02E-08
SQP <sup>1</sup>	-	1.34E+02	2.41E+03	2.95E+03	6.67E+01	0.00E+00	-2.49E+04	0.00E+00	1.34E+02
Caption	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								
Disclaimers	<sup>1</sup> The results of this environmental 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.								

RESOURCE USE PER M3									
Parameter	Unit	A1	A2	A3	C1	C2	C3	C4	D
PERE	MJ	1.58E+01	2.43E+02	1.75E+03	1.11E+01	0.00E+00	-1.40E+04	0.00E+00	1.58E+01
PERM	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PERT	MJ	1.58E+01	2.43E+02	1.75E+03	1.11E+01	0.00E+00	-1.40E+04	0.00E+00	1.58E+01
PENRE	MJ	2.05E+02	2.25E+03	3.98E+03	1.00E+02	0.00E+00	-4.02E+03	0.00E+00	2.05E+02
PENRM	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PENRT	MJ	2.05E+02	2.25E+03	3.98E+03	1.00E+02	0.00E+00	-4.02E+03	0.00E+00	2.05E+02
SM	Kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NRSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FW	m <sup>3</sup>	2.23E-02	2.41E-01	6.36E+00	1.04E-02	0.00E+00	5.43E-01	0.00E+00	2.23E-02

Caption	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; 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 material; RSF = Use of renewable secondary fuels; NRSF = Use of non renewable secondary fuels; FW = Net use of fresh water
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Parameter	Unit	A1	A2	A3	C1	C2	C3	C4	D
HWD	Kg	8.39E-09	1.02E-07	1.32E-06	0.00E+00	4.88E-09	0.00E+00	0.00E+00	1.03E-07
NHWD	Kg	2.21E-02	3.71E-01	3.03E+00	0.00E+00	1.70E-02	0.00E+00	0.00E+00	7.88E-02
RWD	Kg	1.47E-04	1.84E-03	3.17E-02	0.00E+00	1.60E-04	0.00E+00	0.00E+00	4.97E-03
CRU	Kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MFR	Kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MER	Kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EEE	MJ	0.00E+00	0.00E+00	3.25E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EET	MJ	0.00E+00	0.00E+00	7.61E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Caption	HWD = Hazardous waste disposed; NHWD = Non-hazardous waste disposed; RWD = Radioactive waste disposed; CRU = Components for re-use; MFR = Materials for recycling; MER = Materials for energy recovery; EEE = Exported electrical energy; EET = Exported thermal energy								

<b>BIOGENIC CARBON CONTENT PER M3</b>		
<b>Parameter</b>	<b>Unit</b>	<b>At the factory gate</b>
Biogenic carbon content in product	kg C	455
Biogenic carbon content in accompanying packaging	kg C	0
Note		1 kg biogenic carbon is equivalent to 44/12 kg of CO <sub>2</sub>

## Additional information

### LCA interpretation

The product consists solely of high-density hardwood which relates directly to the biogenic carbon content.

### Technical information on scenarios

#### End of life (C1-C4)

Scenario information	Value	Unit
Collected separately		kg
Collected with mixed waste		kg
For reuse		kg
For recycling (scenario 2)	910	kg
For energy recovery (scenario 1)	910	kg
For final disposal		kg
Assumptions for scenario development		As appropriate

#### Re-use, recovery and recycling potential (D)

Scenario information/Materiel	Value	Unit
Displaced material	910	kg


#### Indoor air

*The EPD does not give information on release of dangerous substances to indoor air because the horizontal standards on the relevant measurements are not available. Read more in EN15804+A1 chapter 7.4.1.*

#### Soil and water

*The EPD does not give information on release of dangerous substances to soil and water because the horizontal standards on the relevant measurements are not available. Read more in EN15804+A1 chapter 7.4.2.*

## References

<b>Publisher</b>	 <a href="http://www.epddanmark.dk">www.epddanmark.dk</a> <small>Template version 2023.2</small>
<b>Programme operator</b>	Danish Technological Institute Gregersensvej DK-2630 Taastrup <a href="http://www.teknologisk.dk">www.teknologisk.dk</a>
<b>LCA-practitioner</b>	TRE – Trap, Rose & Ekblad, Rådgivende Ingeniører og Biologer ApS Automatikvej 1 DK-2860 Søborg <a href="http://www.tre-ing.dk">www.tre-ing.dk</a>
<b>LCA software / background data</b>	<i>LCA for experts 10.8.0.14</i> <i>EN 15804 reference package 3.1</i>
<b>3<sup>rd</sup> party verifier</b>	<i>Kim Christiansen</i> <a href="http://www.kimconsult.dk">www.kimconsult.dk</a>

### General programme instructions

General Programme Instructions, version 2.0, spring 2020  
[www.epddanmark.dk](http://www.epddanmark.dk)

#### EN 15804

DS/EN 15804 + A2:2019 - "Sustainability of construction works – Environmental product declarations – Core rules for the product category of construction products"

#### EN 16485

cPCR, EN 16485:2014 - Round and sawn timber - Environmental Product Declarations - Product category rules for wood and wood-based products for use in construction

#### EN 15942

DS/EN 15942:2011 – " Sustainability of construction works – Environmental product declarations – Communication format business-to-business"

#### ISO 14025

DS/EN ISO 14025:2010 – " Environmental labels and declarations – Type III environmental declarations – Principles and procedures"

#### ISO 14040

DS/EN ISO 14040:2008 – " Environmental management – Life cycle assessment – Principles and framework"

#### ISO 14044

DS/EN ISO 14044:2008 – " Environmental management – Life cycle assessment – Requirements and guidelines"

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**REACH Declaration**

"Erklæring om overholdelse af REACH Kandidatlisten"