

## Environmental product declaration

in accordance with ISO 14025, ISO 21930 and EN 15804

Owner of the declaration:	Helland Møbler AS
Program operator:	The Norwegian EPD Foundation
Publisher:	The Norwegian EPD Foundation
Declaration number:	NEPD-4187-3414-EN
Registration number:	NEPD-4187-3414-EN
ECO Platform reference number:	-
Issue date:	30.12.2022
Valid to:	30.12.2027

### Pan Coffee table 120x70cm

Helland Møbler AS

**HELLAND®**

[www.epd-norge.no](http://www.epd-norge.no)



## General information

### Product:

Pan Coffee table 120x70cm

### Program operator:

The Norwegian EPD Foundation  
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### Declaration number:

NEPD-4187-3414-EN

### ECO Platform reference number:

### This declaration is based on Product Category Rules:

CEN Standard EN 15804:2012+A1:2013 serves as core PCR  
NPCR 026:2018 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 Pan Coffee table 120x70cm

### Declared unit with option:

A1,A2,A3,A4

### Functional unit:

Production of the table provided and maintained for a period of 15 years.

### 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. Individual third party verification of each EPD is not required when the EPD tool is i) integrated into the company's environmental management system, ii) the procedures for use of the EPD tool are approved by EPDNorway, and iii) the process is reviewed annually. 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.

Erik Svanes, Norsus AS

(no signature required)

### Owner of the declaration:

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Contact person: Joakim Helland  
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### Manufacturer:

Helland Møbler AS  
Postboks 10 6259 Stordal  
Norway

### Place of production:

Helland Baltic ÖU  
Hapvali, Nõmme küla, Haapsalu linn EE-90439 Läänemaa  
Estonia

### Management system:

ISO 14001:2015, sertifikat nr 901085

### Organisation no:

943 511 128

### Issue date:

30.12.2022

### Valid to:

30.12.2027

### Year of study:

2021

### Comparability:

EPDs from programmes other than the Norwegian EPD Foundation may not be comparable

### Development and verification of EPD:

The declaration has been developed and verified using EPD tool lca.tools ver EPD2020.11, developed by LCA.no AS. The EPD tool is integrated into the company's environmental management system, and has been approved by EPD-Norway

Developer of EPD:

Oddrun Aunet Innselset

Reviewer of company-specific input data and EPD:

Pawel Sosinski

### Approved:

Sign



Håkon Hauan, CEO EPD-Norge

Key environmental indicators	Unit	Cradle to gate A1 - A3
Global warming	kg CO2 eqv	27,88
Total energy use	MJ	726,04
Amount of recycled materials	%	6,77

## Product

**Market:**

Europa and USA

**Product description:**

Pan is a very popular model, with its stylish design and solid construction. The modern table legs in solid wood give the table a light and airy feel in the room. Pan is a very versatile table that fits most recliners, sofas and interiors. The table comes in different sizes, and can also be supplied with a practical shelf for things you want easily accessible.

Key environmental indicators for variants on page 8

**Product specification**

- Square table top
- Chipboard core, table top
- Bottom plate
- Wooden base
- Chemical disinfectant ok (acid-cured varnish)

**Technical data:**

Width: 70cm  
Height: 60/50cm  
Depth: 120cm

**Reference service life, product**

15 years

**Reference service life, building**

Materials	kg	%	Recycled share in material (kg)	Recycled share in material (%)
Metal - Steel	0,50	2,78	0,10	20,00
Plastic - Acrylonitrile butadiene styrene (ABS)	0,20	1,11	0,00	0,00
Wood - Solid beech/birch	3,43	19,06	0,00	0,00
Wood - Chipboard	11,68	64,90	0,00	0,00
Glue for wood	0,10	0,56	0,00	0,00
High pressure laminate - HPL thin	1,68	9,33	0,01	0,39
Paint, solvent-based	0,40	2,22	0,00	0,00
Plastic - Nylon (PA)	0,01	0,04	0,00	0,00
Total:	18,00		0,11	

Packaging	kg		Recycled share in material (kg)	Recycled share in material (%)
Packaging - Cardboard	1,60		1,22	76,30
Total including packaging	19,6		1,33	

## LCA: Calculation rules

**Declared unit:**

1 Pcs Pan Coffee table 120x70cm

**Cut-off criteria:**

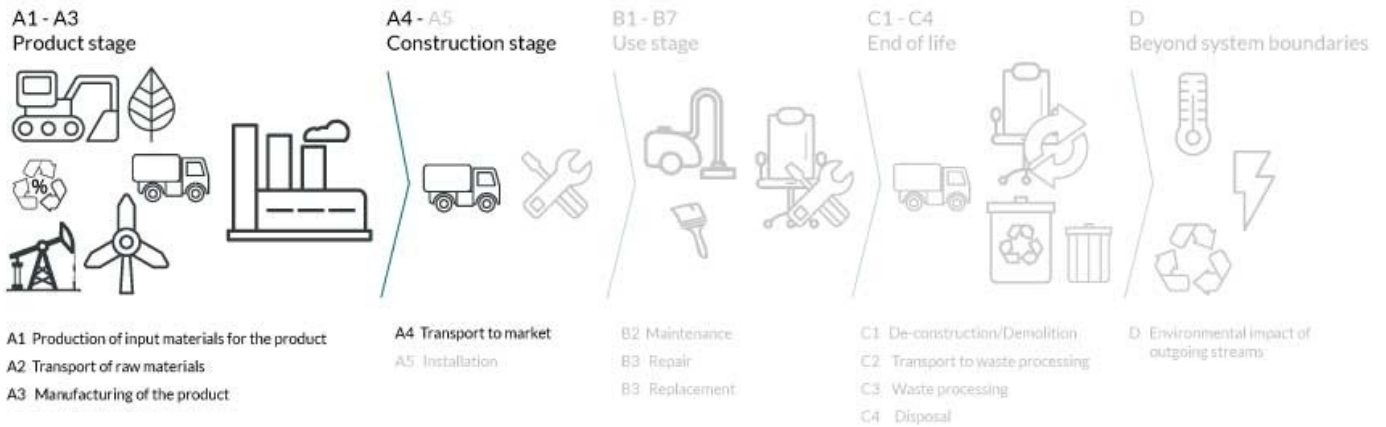
All major raw materials and all the essential energy is included. The production processes for raw materials and energy flows with very small amounts (less than 1%) are not included. These cut-off criteria do not apply for hazardous materials and substances.

**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
Plastic - Acrylonitrile butadiene styrene (ABS)	ecoinvent 3.4	Database	2015
Metal - Steel	ecoinvent 3.3	Database	2016
Glue for wood	ecoinvent 3.4	Database	2017
Packaging - Cardboard	ecoinvent 3.4	Database	2017
Paint, solvent-based	ecoinvent 3.4	Database	2017
Wood - Chipboard	ecoinvent 3.4	Database	2017
Wood - Solid beech/birch	ecoinvent 3.4	Database	2017
High pressure laminate - HPL thin	EPD-ICL-20170155-CBE1-EN	EPD, IBU	2017
Plastic - Nylon (PA)	ecoinvent 3.6	Database	2019

**System boundary:**



**Additional technical information:**

Transportation to an average customer in Copenhagen is 1000 km (A4: average European lorry > 32 tonnes)  
 The use stage (B1) is represented by a scenario and includes vacuum cleaning of textile once a month. The PCR does not provide detailed guidelines for what should be included in the use stage. In the end of life stage, the transport distance for waste to waste processing is 72 km (C1). The reuse, recovery and recycling stage is beyond the system boundaries (D). It is assumed that the solution is dismantled and the materials recycled or combusted according to general Norwegian treatment of industrial waste (see the table below). This calculation includes only CO2 emissions (GWP) in the C-modules. The transport distance to reuse, recovery or recycling varies for each material, but the average distance is 373 km. The vehicles used and associated data are described in detail in [5].

## LCA: Scenarios and additional technical information

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

Transportation to an average customer in Copenhagen is 1000 km (A4: average European lorry > 32 tonnes) The use stage (B1) is represented by a scenario and includes vacuum cleaning of textile once a month. The PCR does not provide detailed guidelines for what should be included in the use stage. In the end of life stage, the transport distance for waste to waste processing is 72 km (C1). The reuse, recovery and recycling stage is beyond the system boundaries (D). It is assumed that the solution is dismantled and the materials recycled or combusted according to general Norwegian treatment of industrial waste (see the table below). This calculation includes only CO2 emissions (GWP) in the C-modules. The transport distance to reuse, recovery or recycling varies for each material, but the average distance is 373 km. The vehicles used and associated data are described in detail in [5].

### Transport from production place to user (A4)

Type	Capacity utilisation (incl. return) %	Type of vehicle	Distance km	Fuel/Energy consumption	Unit	Value (l/t)
Truck	38,8 %	Truck, 16-32 tonnes, EURO 5	942	0,044606	l/tkm	42,02
Railway					l/tkm	
Boat					l/tkm	
Other Transportation					l/tkm	

### Assembly (A5)

.	Unit	Value
Auxiliary	kg	
Water consumption	m <sup>3</sup>	
Electricity consumption	kWh	
Other energy carriers	MJ	
Material loss	kg	
Output materials for waste treatment	kg	
Dust in the air	kg	
VOC emissions	kg	

### Use (B1)

.	Unit	Value

### Maintenance (B2)/Repair (B3)

.	Unit	Value
Maintenance cycle*		
Auxiliary		
Other resources		
Water consumption	m <sup>3</sup>	
Electricity consumption	kWh	
Other energy carriers	MJ	
Material loss	kg	
VOC emissions	kg	

### Replacement (B4)/Refurbishment (B5)

.	Unit	Value
Replacement cycle*		
Electricity consumption	kWh	
Replacement of worn parts		
* Described above if relevant		

### Operational energy (B6) and water consumption (B7)

.	Unit	Value
Water consumption	m <sup>3</sup>	
Electricity consumption	kWh	
Other energy carriers	MJ	
Power output of equipment	kW	

### End of Life (C1, C2)

.	Unit	Value
Hazardous waste disposed	kg	
Collected as mixed construction waste	kg	
Reuse	kg	
Recycling		
Energy recovery		
To landfill	kg	

### Transport to waste processing (C2)

Type	Capacity utilisation (incl. return) %	Type of vehicle	Distance km	Fuel/Energy consumption	Unit	Value (l/t)
Truck					l/tkm	
Railway					l/tkm	
Boat					l/tkm	
Other Transportation					l/tkm	

**LCA: Results**

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

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

Product stage				Construction installation stage	User 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	Deconstruction demolition	Transport	Waste processing	Disposal	Reuse-Recovery-Recycling-potential	
A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D	
X	X	X	X	MND	MND	MND	MND	MND	MND	MND	MND	MND	MND	MND	MND	MND	

**Environmental impact**

Parameter	Unit	A1	A2	A3	A4
GWP	kg CO <sub>2</sub> -eq	1,69E+01	4,66E-01	1,05E+01	3,00E+00
ODP	kg CFC11 -eq	1,09E-06	8,59E-08	5,05E-07	5,54E-07
POCP	kg C <sub>2</sub> H <sub>4</sub> -eq	6,76E-03	7,61E-05	1,97E-03	4,90E-04
AP	kg SO <sub>2</sub> -eq	7,18E-02	1,50E-03	4,86E-02	9,58E-03
EP	kg PO <sub>4</sub> <sup>3-</sup> -eq	1,18E-02	2,56E-04	6,52E-03	1,59E-03
ADPM	kg Sb -eq	5,87E-05	1,45E-06	1,56E-05	9,16E-06
ADPE	MJ	2,48E+02	7,02E+00	1,12E+02	4,53E+01

GWP Global warming potential; ODP Depletion potential of the stratospheric ozone layer; POCP Formation potential of tropospheric photochemical oxidants; AP Acidification potential of land and water; EP Eutrophication potential; ADPM Abiotic depletion potential for non fossil resources; ADPE Abiotic depletion potential for fossil resources

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

\*INA Indicator Not Assessed

**Resource use**

Parameter	Unit	A1	A2	A3	A4
RPEE	MJ	2,20E+02	1,03E-01	4,64E+01	6,60E-01
RPEM	MJ	1,85E+02	0,00E+00	0,00E+00	0,00E+00
TPE	MJ	4,05E+02	1,03E-01	4,64E+01	6,60E-01
NRPE	MJ	2,57E+02	7,18E+00	1,95E+02	4,63E+01
NRPM	MJ	2,34E+01	0,00E+00	0,00E+00	0,00E+00
TRPE	MJ	2,81E+02	7,18E+00	1,95E+02	4,63E+01
SM	kg	1,33E+00	0,00E+00	0,00E+00	0,00E+00
RSF	MJ	3,34E-01	0,00E+00	0,00E+00	0,00E+00
NRSF	MJ	2,60E-01	0,00E+00	0,00E+00	0,00E+00
W	m <sup>3</sup>	1,96E-01	1,34E-03	9,28E-02	8,68E-03

RPEE Renewable primary energy resources used as energy carrier; RPEM Renewable primary energy resources used as raw materials; TPE Total use of renewable primary energy resources; NRPE Non renewable primary energy resources used as energy carrier; NRPM Non renewable primary energy resources used as materials; TRPE 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; W Use of net fresh water

Reading example: 9,0 E-03 =  $9,0 \cdot 10^{-3} = 0,009$

\*INA Indicator Not Assessed

**End of life - Waste**

Parameter	Unit	A1	A2	A3	A4
HW	kg	8,31E-04	4,23E-06	4,12E-02	2,70E-05
NHW	kg	5,46E+00	3,75E-01	2,72E+00	2,44E+00
RW	kg	INA*	INA*	INA*	INA*

HW Hazardous waste disposed; NHW Non hazardous waste disposed; RW Radioactive waste disposed

Reading example: 9,0 E-03 =  $9,0 \cdot 10^{-3} = 0,009$

\*INA Indicator Not Assessed

**End of life - Output flow**

Parameter	Unit	A1	A2	A3	A4
CR	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00
MR	kg	0,00E+00	0,00E+00	5,71E-02	0,00E+00
MER	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00
EEE	MJ	INA*	INA*	INA*	INA*
ETE	MJ	INA*	INA*	INA*	INA*

CR Components for reuse; MR Materials for recycling; MER Materials for energy recovery; EEE Exported electric energy; ETE Exported thermal energy

Reading example: 9,0 E-03 =  $9,0 \cdot 10^{-3} = 0,009$

\*INA Indicator Not Assessed

## Additional Norwegian 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
Energy, electricity, European average: 1 kWh	ecoinvent 3.4	594,20	g CO <sub>2</sub> -ekv/kWh

### Dangerous substances

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

### Indoor environment

Our Furniture not contain any substances that affects indoor climate.

## Additional environmental information

Key environmental indicators for variants for this EPD: Cradle to Gate analyse from A1 to A3

Variant number	Global warming (kg CO <sub>2</sub> )	Total energy use (MJ)	Share of recycled material in product(%)
Pan Coffee table 70x70cm	20,73	509,30	6,97
Pan Coffee table 120x70cm w/ lower shelf	35,18	899,85	5,67
Pan Coffee table 70x70 cm w/ lower shelf	24,95	604,53	6,10
Pan Coffee table 120x80cm	29,47	779,97	6,15
Pan Coffee table 120x80 cm w/ lower shelf	37,60	966,67	5,23
Pan Coffee table 125x70 cm w/ oval plate	27,46	705,01	7,14
Pan Coffee table 125x70 cm w/ oval plate and lower shelf	34,90	880,34	5,92
Pan Coffee table 120x70 cm w/ rounded corners.	27,88	726,04	6,77
Pan Coffee table 120x70 cm w/ rounded corners and lower shelf	35,09	869,84	5,67
Pan Coffee table 65x65 cm w/ rounded corners	19,13	455,17	10,03
Pan Coffee table 65x65 cm w/ rounded corners and lower shelf	23,35	550,40	8,29
Pan Coffee table Ø50	16,84	369,84	12,83
Pan Coffee table Ø60	18,36	442,59	10,02
Pan Coffee table Ø60 w/ lower shelf	20,82	509,15	8,30
Pan Coffee table Ø70	19,87	488,16	8,60
Pan Coffee table Ø70 w/ lower shelf	22,35	555,68	7,28
Pan Coffee table Ø90	23,80	612,99	6,12
Pan Coffee table Ø90 w/ lower shelf	25,34	631,83	5,52

## 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+A1:2013 Environmental product declaration - Core rules for the product category of construction products.

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