



ENVIRONMENTAL PRODUCT DECLARATION

in accordance with ISO 14025, ISO 21930 and EN 15804

Owner of the declaration:	Fora Form AS
Program operator:	The Norwegian EPD Foundation
Publisher:	The Norwegian EPD Foundation
Declaration number:	NEPD-3045-1720-EN
Registration number:	NEPD-3045-1720-EN
ECO Platform reference number:	-
Issue date:	26.08.2021
Valid to:	26.08.2026

Con III low back oak

Fora Form AS

www.epd-norge.no



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General information

Product:

Con III low back oak

Program operator:

The Norwegian EPD Foundation Pb. 5250 Majorstuen, 0303 Oslo Phone: +47 23 08 80 00 e-mail: post@epd-norge.no

Declaration number:

NEPD-3045-1720-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 Con III low back oak

Declared unit with option:

A1,A2,A3,A4

Functional unit:

Production of one seating solution 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 proccess is reviewed annualy. 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)

Fora Form AS Contact person: Kåre Sætre Phone: +47 700 46 000 e-mail: info@foraform.com

Manufacturer:

Fora Form AS

Place of production:

Fora Form AS Mosfaltevegen 6154 Ørsta Norway

Management system:

NS-EN ISO 14001: 2015 No. 800406. NS-EN ISO 9001: 2015 No. 901268. NS-EN ISO 45001: 2018 No 907167.

Organisation no:

986 581 421

Issue date: 26.08.2021

Valid to: 26.08.2026

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:

Kåre Sætre

Reviewer of company-specific input data and EPD:

Katrine Østgård

Approved:

Sign

Håkon Hauan, CEO EPD-Norge

Key environmental indicators	Unit	Cradle to gate A1 - A3
Global warming	kg CO2 eqv	33,16
Total energy use	MJ	617,26
Amount of recycled materials	%	22,85



Product

Market:

Worldwide

Product description:

Con is a versatile chair series for use in several areas of interaction, from formal meeting rooms to canteens. Designer Lars Tornøe started out with shell structures to design a "petite contribution" to Fora Form's collection. The result has been a chair and bar stool made up of two overlapping shells joined by a distinct button, a theme influenced by Japanese armor. The layered design is the foundation for a series of chairs with countless combination options with shells in different designs, armrests and various bases.

Product specification

Technical data:

The product is tested and approved according to the following standards: NS-EN 16139:2013

Width: 50 cm Height: 81,5 cm Depth: 49 cm Seat height: 46,5 cm

Weight: 8,6 kg. whitout cardboard

Reference service life, product

15 years

Reference service life, building

Materials	kg	%	Recycled share in material (kg)	Recycled share in material (%)
Metal - Aluminium	1,00	9,43	1,00	100,00
Metal - Steel	2,70	25,47	0,54	20,00
Textile - Wool	0,50	4,72	0,00	0,00
Plastic - Polyurethane (PUR)	0,50	4,72	0,00	0,00
Plastic - Polypropylene (PP)	1,70	16,04	0,00	0,00
Wood - Plywood	2,20	20,75	0,00	0,00
Cardboard	2,00	18,87	1,53	76,30

LCA: Calculation rules

Declared unit:

1 Pcs Con III low back oak

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. 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:

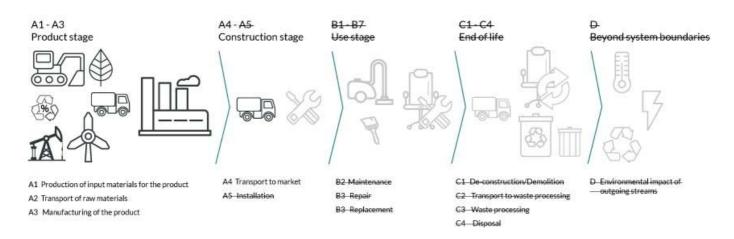
Specific data for the product composition are provided by the manufacturer. They represent the production of the declared product and were collected for EPD development in the year of study. Background data is based on registered EPDs according to EN 15804, Ostfold Research databases, ecoinvent and other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

Materials	Source	Data quality	Year
Plastic - Polypropylene (PP)	ecoinvent 3.4	Database	2015
Plastic - Polyurethane (PUR)	ecoinvent 3.4	Database	2015
Metal - Steel	ecoinvent 3.3	Database	2016
Cardboard	ecoinvent 3.4	Database	2017
Metal - Aluminium	ecoinvent 3.4	Database	2017
Metal coating - Powder coating on steel	ecoinvent 3.4	Database	2017
Process	ecoinvent 3.4	Database	2017
Textile - Wool	ecoinvent 3.4	Database	2017
Wood - Plywood	ecoinvent 3.4	Database	2017

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System boundary:

Life cycle stages included are described in figure



Additional technical information:

We want you to enjoy your furniture for many years to come. If you follow our advice in this Quality and Maintenance Manual you contribute to prolonged life of your furniture. We only use environmentally friendly materials and processes in our manufacturing unit in Ørsta Norway. Our goal is to manufacture furniture that can last for generations. All furniture made by Fora Form are made of FSC certified wood, manufactured according to ISO 14001, and has an EPD on all products. This ensures sustainability and a "cradle to cradle" philosophy. We actively work to reduce waste. All packing materials and waste are being recycled according to Norsk Gjenvinning.

Norwegian and Swedish Møbelfakta are accredited test facilities where furniture quality, strength, durability, flammability, safety, emissions and materials are tested and documented. A piece of furniture, which lives up to the three areas of requirements of Møbelfakta, has undergone extensive testing, is produced according to ethical guidelines and has been approved according to environmental requirements. Møbelfakta is a guarantee of high quality products. Almost all of Fora Forms collection is Møbelfakta approved.

Fora Form are ISO 9001 quality management, ISO 14001 environmental management and ISO 45001 occupational health and safety management certified. Sustainability is important for Fora Form.

We continuously work to sort and reduce our waste, and collaborate with Norsk Gjenvinning and Grønt Punkt (Green Dot Norway plc) regarding recycling of used packing materials. All wood is FSC certified.

Our manufacturing unit in Ørsta use electricity that is 100% originated from renewable sources.



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

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

Transport from production place to user (A4) Fuel/Energy **Capacity utilisation** Туре Type of vehicle Distance km Unit Value (l/t) consumption (incl. return) % 0,044606 50 Truck 38,8 % Truck, 16-32 tonnes, EURO 5 l/tkm 2,23 Railway l/tkm Boat l/tkm Other Transportation l/tkm

Ilea (B1)

Assembly (A5)			Use (B1)		
•	Unit	Value		Unit	Value
Auxiliary	kg				
Water consumption	m ³				
Electricity consumption	kWh		1		
Other energy carriers	MJ		1		
Material loss	kg		1		
Output materials fr ste treatment	kg		1		
Dust in the air	kg		1		
VOC emissions	kg]		
Maintenance (B2)/Repair (B3)		8	Replacement (B4)/Refurbishment (B5)		
	Unit	Value		Unit	Value
Maintenance cycle*	S'Co		Replacement cycle*		
Auxiliary	"han		Electricity consumption	kWh	
Other resources	4ric)_	Replacement of worn parts		
Water consumption	m ³	26	* Described above if relevant		
Electricity consumption	kWh				
Other energy carriers	MJ		47		
Material loss	kg		· Ad		
VOC emissions	kg		T are		
Operational energy (B6) and water consumpt	tion (B7)		Replacement (B4)/Refurbishment (B5) Replacement cycle* Electricity consumption Replacement of worn parts Described above if relevant A1. A4. Find of Life (C1, C) Hazardous waste disposed Collected as mixed construction wb. Reuse Recycling		
	Unit	Value	ina	Unit	Value
Water consumption	m ³		Hazardous waste disposed	kg	
Electricity consumption	kWh		Collected as mixed construction we.	kg	
Other energy carriers	MJ		Reuse	kg	
Power output of equipment	kW		Recycling		
			Energy recovery		

To landfill

kg

Transport to waste processing (C2)

Accombly (A5)

Туре	Capacity utilisation (incl. return) %	Type of vehicle	Distance km	Fuel/Energy consumption	Unit	Value (I/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 inst				uction lation age	User stage					End of	life stage	•	Beyond the system bondaries			
Raw	materials	Transport	Manufacturing	Transport	Assembly	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	D e. construction demolition	Transport	W aste processing	Disposal	Reuse-Recovery- Recycling- potential
A	1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	. D
Х		Х	Х	Х													

Environmental impact

Parameter	Unit	A1	A2	A3	A4
GWP	kg CO ₂ -eq	3,12E+01	1,76E+00	1,78E-01	8,62E-02
ODP	kg CFC11 -eq	1,53E-06	3,24E-07	8,75E-09	1,59E-08
РОСР	kg C ₂ H ₄ -eq	1,11E-02	2,86E-04	3,41E-05	1,41E-05
AP	kg SO ₂ -eq	1,79E-01	5,61E-03	8,58E-04	2,75E-04
EP	kg PO4 ³⁻ -eq	3,32E-02	9,30E-04	1,12E-04	4,56E-05
ADPM	kg Sb -eq	4,71E-04	5,36E-06	2,77E-07	2,63E-07
ADPE	MJ	3,43E+02	2,65E+01	1,98E+00	1,30E+00

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*10-3 = 0,009 *INA Indicator Not Assessed uioy

for?

Resource use

Parameter	Unit	A1	A2	A3	A4
RPEE	MJ	1,66E+02	3,86E-01	2,33E-01	1,89E-02
RPEM	MJ	9,29E+01	0,00E+00	0,00E+00	0,00E+00
TPE	MJ	2,59E+02	3,86E-01	2,33E-01	1,89E-02
NRPE	MJ	4,20E+02	2,71E+01	3,40E+00	1,33E+00
NRPM	MJ	7,76E+01	0,00E+00	0,00E+00	0,00E+00
TRPE	MJ	4,98E+02	2,71E+01	3,40E+00	1,33E+00
SM	kg	3,07E+00	0,00E+00	0,00E+00	0,00E+00
RSF	MJ	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
W	m ³	2,86E-01	5,08E-03	1,63E-03	2,49E-04

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*10-3 = 0,009 *INA Indicator Not Assessed

End of life - Waste

Parameter	Unit	A1	A2	A3	A4
HW	kg	8,70E-03	1,58E-05	4,11E-06	7,76E-07
NHW	kg	2,03E+01	1,43E+00	4,15E-02	7,00E-02
RW	kg	INA*	INA*	INA*	INA*
HW Hazardous waste disposed; NHW Non hazardous waste disposed; RW Radioactiv	e waste disposed				
Reading example: 9,0 E-03 = 9,0*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	0,00E+00	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 recov	very; EEE Exported	electric energy	; ETE Exported	thermal energ	y
Reading example: 9,0 E-03 = 9,0*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).

Dangerous substances

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

Indoor environment

Our furniture doesn't contain any substanses that effect indoor clima

Additional environmental information

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.

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NPCR Part A: Construction products and services. Ver. 1.0. April 2017, EPD-Norge. NPCR 026 Part B for Furniture. Ver. 2.0 October 2018, EPD-Norge.

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