ENVIRONMENTAL PRODUCT DECLARATION

in accordance with ISO 14025, ISO 21930 and EN 15804

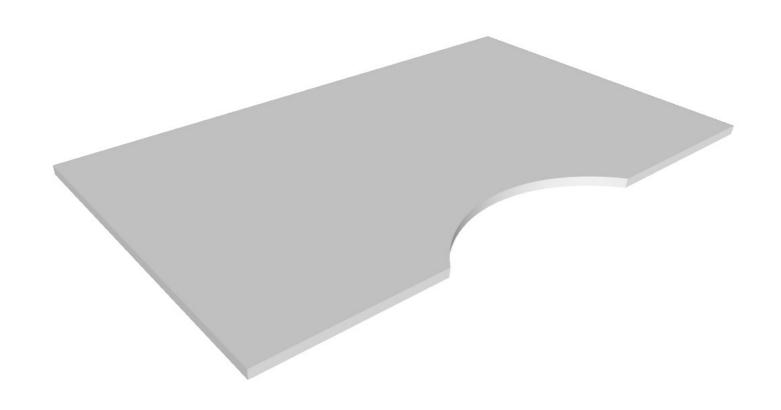
Owner of the declaration:	Scan Sørlie
Program operator:	The Norwegian EPD Foundation
Publisher:	The Norwegian EPD Foundation
Declaration number:	
Registration number:	NA
ECO Platform reference number:	NA
Issue date:	27.09.2022
Valid to:	

Tabletop, MFC, small arc, 140 X 80 X 2,5

Scan Sørlie



www.epd-norge.no





General information

Product:

Tabletop, MFC, small arc, 140 X 80 X 2,5

Owner of the declaration:

Scan Sørlie

Contact person: Dalius Ginaitis Phone: +47 69 22 75 50 e-mail: dalius@scansorlie.com

Program operator:

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

Scan Sørlie

Declaration number:

Place of production:

Scan Sørlie Vistergrenda 80 1719 Greåker Norway

ECO Platform reference number:

Management system:

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

Organisation no:

926 646 990

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.

Issue date:

27.09.2022

Valid to:

Declared unit:

1 Pcs Tabletop, MFC, small arc, 140 X 80 X 2,5

Year of study:

2022

Declared unit with option:

A1,A2,A3,A4

Comparability:

 $\ensuremath{\mathsf{EPDS}}$ from programmes other than the Norwegian $\ensuremath{\mathsf{EPD}}$ Foundation may not be comparable

Functional unit:

Tabletop, MFC, small arc, 140 X 80 X 2,5

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

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 annualy. See Appendix G of EPD-Norway's General Programme Instructions for further information on EPD tools.

Developer of EPD:

Dalius Ginaitis

Reviewer of company-specific input data and EPD:

Jurate Jasiuniene

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.

Approved:

Sign

Erik Svanes, Norsus AS

(no signature required)

Håkon Hauan, CEO EPD-Norge

Key environmental indicators	Unit	Cradle to gate A1 - A3
Global warming	kg CO2 eqv	24,51
Total energy use	MJ	746,81
Amount of recycled materials	%	5,79



Product

Market:

Product description:

Tabletop, MFC, small arc, 140 X 80 X 2,5

Product specification

Technical data:

Melamine faced chipboard, ABS edge-band, length: 140 cm, width: 80 cm, thickness: 25 mm. Small arc milled in the middle.

Reference service life, product

5 years warranty, 15 years expected lifecycle.

Reference service life, building

Materials	kg	%	Recycled share in material (kg)	Recycled share in material (%)
Plastic - Acrylonitrile butadiene styrene (ABS)	0,25	1,47	0,00	0,00
Wood - Chipboard	16,60	97,42	0,00	0,00
Glue for wood	0,04	0,26	0,00	0,00
Plastic - Melamine	0,15	0,85	0,00	0,00
Total:	17,04		0,00	
Packaging	kg		Recycled share in material (kg)	Recycled share in material (%)
Packaging - Cardboard	1,40		1,07	76,30
Total including packaging	18,44		1,07	

LCA: Calculation rules

Declared unit:

1 Pcs Tabletop, MFC, small arc, 140 X 80 X 2,5

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.

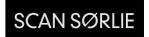
Allocation:

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.

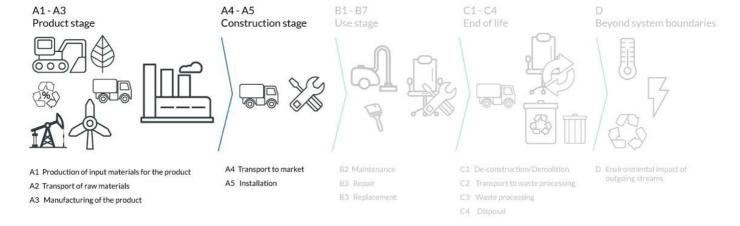
Data quality:

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.

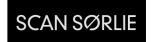
Materials	Source	Data quality	Year
Plastic - Acrylonitrile butadiene styrene (ABS)	ecoinvent 3.4	Database	2015
Glue for wood	ecoinvent 3.4	Database	2017
Packaging - Cardboard	ecoinvent 3.4	Database	2017
Plastic - Melamine	ecoinvent 3.4	Database	2017
Wood - Chipboard	ecoinvent 3.4	Database	2017



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)

······································						
Туре	Capacity utilisation (incl. return) %	Type of vehicle	Distance km	Fuel/Energy consumption	Unit	Value (I/t)
Truck	38,8 %	Truck, 16-32 tonnes, EURO 5	1030	0,044606	l/tkm	45,94
Railway					l/tkm	
Boat	71,0 %	Ship, Coastal Barge (250 - 3000t load)	270	0,011179	l/tkm	3,02
Other Transportation					l/tkm	

	mb		

	Unit	Value
Auxiliary	kg	
Water consumption	m ³	
Electricity consumption	kWh	
Other energy carriers	MJ	
Material loss	kg	
Output materials fr ste treatment	kg	
Dust in the air	kg	
VOC emissions	kg	

Use (B1)

Unit	Value	L
		T
		_

Maintenance (B2)/Repair (B3)

	Unit	Value
Maintenance cycle*	Scenario	
Auxiliary	Char.	
Other resources	4/10)
Water consumption	m ³	3.9k
Electricity consumption	kWh	dite
Other energy carriers	MJ	
Material loss	kg	
VOC emissions	kg	

Replacement (B4)/Refurbishment (B5)

1		Unit	Value
1	Replacement cycle*		
1	Electricity consumption	kWh	
1	Replacement of worn parts		

^{*} Described above if relevant

Operational energy (B6) and water consumption (B7)

	Unit	Value
Water consumption	m ³	
Electricity consumption	kWh	
Other energy carriers	MJ	
Power output of equipment	kW	

* Described above if relevant		
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1/2/		
74		
dro		
End of Life (C1) 20		
Elid of Elie (C1, C	11-14	34-1
1701	Unit	Value
Hazardous waste disposed	kg	
Collected as mixed construction was	√ kg	
Reuse	kg	
Populing	- 1	
Recycling		
Energy recovery	_	
End of Life (C1, C) OF INC/L/OR Hazardous waste disposed Collected as mixed construction was Recycling Energy recovery To landfill	kg	

Transport to waste processing (C2)

Туре	Capacity utilisation (incl. return) %	Type of vehicle	Distance km	Fuel/Energy consumption	Unit	Value (I/t)
Truck					I/tkm	
Railway					I/tkm	
Boat					I/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			instal	ruction lation age		User stage				End of I	life stage	1	Beyond the system bondaries			
Raw materials	Transport	Manufacturing	Transport	Assembly	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	De- construction demolition	Transport	W aste processing	Disposal	Reuse-Recovery- Recycling- potential
A1	A2	A3	A4	A5	B1	B2	В3	B4	B5	В6	В7	C1	C2	C3	C4	. D
Х	Х	Х	Χ	MND	MND	MND	MND	MND	MND	MND	MND	MND	MND	MND	MND	. MND

Environmental impact

Parameter	Unit	A1	A2	A3	A4
GWP	kg CO ₂ -eq	1,03E+01	3,48E-01	1,39E+01	3,32E+00
ODP	kg CFC11 -eq	1,18E-06	6,41E-08	6,90E-07	6,03E-07
POCP	kg C ₂ H ₄ -eq	4,35E-03	5,67E-05	2,65E-03	5,41E-04
AP	kg SO ₂ -eq	5,07E-02	1,11E-03	6,66E-02	1,15E-02
EP	kg PO ₄ ³⁻ -eq	8,59E-03	1,85E-04	8,83E-03	2,00E-03
ADPM	kg Sb -eq	3,76E-05	1,06E-06	2,15E-05	9,53E-06
ADPE	MJ	1,66E+02	5,24E+00	1,54E+02	4,95E+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*10-3 = 0.009

*INA Indicator Not Assessed



Resource use

Parameter	Unit	A1	A2	A3	A4
RPEE	MJ	2,27E+02	7,64E-02	6,26E+01	7,43E-01
RPEM	MJ	1,41E+02	0,00E+00	0,00E+00	0,00E+00
TPE	MJ	3,68E+02	7,64E-02	6,26E+01	7,43E-01
NRPE	MJ	1,88E+02	5,36E+00	2,64E+02	5,07E+01
NRPM	MJ	1,07E+01	0,00E+00	0,00E+00	0,00E+00
TRPE	MJ	1,99E+02	5,36E+00	2,64E+02	5,07E+01
SM	kg	1,07E+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	6,82E-02	1,00E-03	1,26E-01	9,65E-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*10-3 = 0,009 *INA Indicator Not Assessed

End of life - Waste

Parameter	Unit	A1	A2	A3	A4
HW	kg	1,85E-04	3,14E-06	3,18E-04	3,02E-05
NHW	kg	3,32E+00	2,82E-01	3,34E+00	2,54E+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*10-3 = 0,009

*INA Indicator Not Assessed

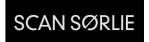
End of life - Output flow

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	1,82E+00	0,00E+00
MER	kg	0,00E+00	0,00E+00	1,55E-03	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*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 CO2-ekv/kWh

Dangerous substances

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

Indoor environment

Additional environmental information

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

Variant number	Global warming (kg CO2)	Total energy use (MJ)	Share of recycled material in product(%)
Tabletop, MFC, small arc, 160 X 80 X 2,5	25,95	810,85	5,82
Tabletop, MFC, small arc, 180 X 80 X 2,5	27,44	877,27	5,81
Tabletop, MFC, small arc, 200 X 80 X 2,5	28,93	943,70	5,81
Tabletop, MFC, small arc, 140 X 90 X 2,5	25,76	804,21	5,79
Tabletop, MFC, small arc, 160 X 90 X 2,5	27,35	868,97	5,81
Tabletop, MFC, small arc, 180 X 90 X 2,5	28,90	948,34	5,81
Tabletop, MFC, small arc, 200 X 90 X 2,5	30,42	1 020,33	5,81

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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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