

ENVIRONMENTAL PRODUCT DECLARATION

in accordance with ISO 14025, ISO 21930 and EN 15804

Optima conference table 6000x1200 grey HPL

JSC Svenheim



www.epd-norge.no





General information

Product:

Optima conference table 6000x1200 grey HPL

Owner of the declaration:

JSC Svenheim

Contact person: Karolina Klimaite Phone: +370 657 52044 e-mail: info@svenheim.lt

Program operator:

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

JSC Svenheim

Naujoji str.132 , LT-62175 Alytus

Lithuania

Declaration number:

NEPD-2648-1355-EN

Place of production:

JSC Svenheim

Naujoji str.132 , LT-62175 Alytus

Lithuania

ECO Platform reference number:

Management system:

ISO 14001, Certificate No. 81858-2010-AE-LUT-FINAS ISO 9001, Certificate No. 81860-2010-AQ-LTU-FINAS Accredited unit: DNV Certification OY/AB, Finland

This declaration is based on Product Category Rules:

CEN Standard EN 15804:2012+A1:2013 serves as core PCR

Organisation no: LT100004040014

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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.

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

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

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)

Issue date: 01.02.2021

Valid to: 01.02.2026

Declared unit:

1 Pcs Optima conference table 6000x1200 grey HPL

Declared unit with option:

A1,A2,A3,A4,C1,C2,C3,C4,D

Year of study:
Comparability:

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

Functional unit:

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:

Karolina Klimaite

Reviewer of company-specific input data and EPD:

Linas Vosylius

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	388,87
Total energy use	MJ	10385,36
Amount of recycled materials	%	2,57



Product

Market:

Europe

Product description:

Meeting table Optima, rect. shape 4000*1200*26, grey HPL with fixed round column 735mm, Astro T-foot

Product specification

Optima conference table has core material in 25 mm MDF, with surface selection of veneer, linoleum, HT laminate, Fenix black matt HT laminate as standard. The edge is profiled 10 mm straight with 40 degrees chamfer or as straight edge with radius 2mm. Veneered surface has 5 coats of UV lacquer, which makes the surface very durable and strong. Legs has fixed or electric column, T-foot, X-foot or disk-foot. Surfaces in gray, white, black or chrome.

Technical data:

Total weight 208,89kg (with packaging)

Reference service life, product

15 years

Reference service life, building

Materials	kg	%	Recycled share in material (kg)	Recycled share in material (%)	
Printed paper	0,95	0,34	0,00	0,00	
Metal - Steel	31,51	11,32	6,30	20,00	
Wood - Medium Density Fibreboard (MDF)	236,16	84,85	0,00	0,00	
Plastic - Acrylonitrile butadiene styrene (ABS)	0,62	0,22	0,00	0,00	
Plastic - Polypropylene (PP)	0,00	0,00	0,00	0,00	
Wood - Solid beech/birch	0,05	0,02	0,00	0,00	
Glue for wood	2,91	1,05	0,00	0,00	
High pressure laminate - HPL thin	6,14	2,21	0,02	0,39	

Packaging	kg	Recycled share in material (kg)	Recycled share in material (%)
Packaging - Cardboard	0,41	0,31	76,30
Packaging - Cardboard	2,00	1,53	76,30

LCA: Calculation rules

Declared unit:

1 Pcs Optima conference table 6000x1200 grey HPL

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.

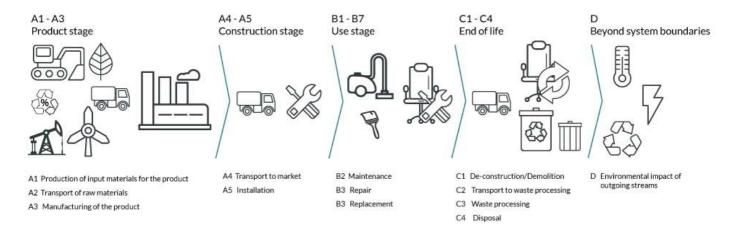
Data quality:

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 - Acrylonitrile butadiene styrene (ABS)	PlasticsEurope	EPD	2015
Metal - Steel	ecoinvent 3.3	Database	2016
Glue for wood	ecoinvent 3.4	Database	2017
Metal - Steel	ecoinvent 3.4	Database	2017
Packaging - Cardboard	ecoinvent 3.4	Database	2017
Printed paper	ecoinvent 3.4	Database	2017
Wood - Medium Density Fibreboard (MDF)	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



System boundary:



Additional technical information:

Transportation to an average customer in Norway is 1606 km (A4: average European lorry > 32 tonnes) (Transport, freight, by lorry (>32t): 1426 km and by sea transport: 180 km).

The electricity consumed is assumed to be from East pool mix in the East European countries. European mix and energy mix in Lithuania is based on data from the World bank (Based on data 2011).

Electricity mix: 0,053 kg CO2 eqv/MJ (East Europe mix).



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.

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. In the table below Norwegian treatment of industrial waste is calculated. This calculation includes only CO2 emissions (GWP) in the Cmodules. 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)

Туре	Capacity utilisation (incl. return) %	Type of vehicle		Fuel/Energy consumption	Unit	Value (I/t)
Truck	55,0 %	Truck, over 32 tonnes, EURO 6	1426	0,022606	l/tkm	32,24
Railway					l/tkm	
Boat	71,0 %	Ship, Coastal Barge (250 - 3000t load)	490	0,011179	l/tkm	5,48
Other Transportation					l/tkm	

End of Life (C1, C3, C4)

	Unit	Value
Hazardous waste disposed	kg	
Collected as mixed construction waste	kg	
Reuse	kg	
Recycling	kg	238,5750
Energy recovery	kg	
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	38,8 %	Truck, 16-32 tonnes, EURO 6	72	0,043626	l/tkm	3,14
Railway					l/tkm	
Boat					l/tkm	
Other Transportation					l/tkm	

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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 bondaries	
	Raw materials	Transport	Manufacturing	Transport	Assembly	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operation al water use	De- construction demolition	Transport	W aste processing	Disposal		Reuse-Recovery- Recycling- potential
Ī	A1	A2	A3	A4	A5	B1	B2	В3	B4	B5	В6	В7	C1	C2	C3	C4	Ι.Τ	D
Γ	Χ	Х	Х	Х	MND	MND	MND	MND	MND	MND	MND	MND	Х	Х	Х	Х		Х

Environmental impact

Parameter	Unit	A1	A2	A3	A4	C1	C2	C3	C4	D
GWP	kg CO ₂ -eq	3,11E+02	3,29E+01	4,46E+01	4,50E+01	0	3,65E+00	4,70E-06	0	0
ODP	kg CFC11 -eq	2,94E-05	6,75E-06	2,34E-06	8,80E-06	0	6,87E-07	0,00E+00	0	0
POCP	kg C ₂ H ₄ -eq	1,58E-01	5,15E-03	2,94E-02	7,09E-03	0	5,53E-04	7,25E-10	0	0
AP	kg SO ₂ -eq	1,51E+00	8,48E-02	2,35E-01	1,51E-01	0	8,58E-03	1,35E-08	0	0
EP	kg PO ₄ ³⁻ -eq	2,77E-01	1,17E-02	3,74E-02	2,48E-02	0	1,13E-03	2,17E-09	0	0
ADPM	kg Sb -eq	1,84E-03	7,93E-05	6,91E-05	9,36E-05	0	1,13E-05	1,40E-11	0	0
ADPE	MJ	4,57E+03	5,39E+02	4,94E+02	7,11E+02	0	5,51E+01	5,29E-05	0	0

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	C1	C2	C3	C4	D
RPEE	MJ	3,51E+03	9,74E+00	5,33E+02	1,33E+01	0	8,14E-01	2,67E-06	0	0
RPEM	MJ	2,28E+03	0,00E+00	0,00E+00	0,00E+00	0	0,00E+00	0,00E+00	0	0
TPE	MJ	5,79E+03	9,74E+00	5,33E+02	1,33E+01	0	8,14E-01	2,67E-06	0	0
NRPE	MJ	4,95E+03	5,56E+02	8,25E+02	7,34E+02	0	5,64E+01	5,80E-05	0	0
NRPM	MJ	7,98E+01	0,00E+00	0,00E+00	0,00E+00	0	0,00E+00	0,00E+00	0	0
TRPE	MJ	5,03E+03	5,56E+02	8,25E+02	7,34E+02	0	5,64E+01	5,80E-05	0	0
SM	kg	8,16E+00	0,00E+00	0,00E+00	0,00E+00	0	0,00E+00	0,00E+00	0	0
RSF	MJ	1,22E+00	0,00E+00	0,00E+00	0,00E+00	0	0,00E+00	0,00E+00	0	0
NRSF	MJ	9,50E-01	0,00E+00	0,00E+00	0,00E+00	0	0,00E+00	0,00E+00	0	0
W	m ³	2,19E+00	1,31E-01	3,91E-01	1,74E-01	0	1,07E-02	1,33E-08	0	0

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 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	C1	C2	C3	C4	D
HW	kg	1,04E-02	2,97E-04	1,03E-03	4,17E-04	0	3,32E-05	4,80E-11	0	0
NHW	kg	1,83E+02	5,01E+01	1,14E+01	5,94E+01	0	3,02E+00	3,49E-06	0	0
RW	kg	INA*	INA*	INA*	INA*	0	INA*	INA*	0	0

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	C1	C2	C3	C4	D
CR	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0	0,00E+00	0,00E+00	0	0
MR	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0	0,00E+00	5,58E+04	0	0
MER	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0	0,00E+00	8,06E-07	0	0
EEE	MJ	INA*	INA*	INA*	INA*	0	INA*	INA*	0	0
ETE	MJ	INA*	INA*	INA*	INA*	0	INA*	INA*	0	0

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).

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 constituent parts that affect indoor climate.

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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