

Environmental Product Declaration

Oblivion Partition Walls



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Declaration Number | S-P-01297
EPD Valid from | 2018.09.07 EPD
Expire on | 2027.07.03
Revision Date | 2022.07.04
Revision Version | 2.0
Market Coverage | Worldwide

KOLEKSİYON

In accordance with ISO14025 for
Oblivion Partition Walls



The visual of the product may not be compatible with the product information which is registered.

The environmental impacts of this product have been assessed from cradle to grave.
Environmental Product Declaration has been verified by an independent third party.

For more information about this Environmental Product Declaration or its content,
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Information

The LCA for this EPD is conducted according to the guidelines of ISO 14040/44 and the requirements given in the Product Category Rules (PCR) document for Other Furniture Used in Offices and Other Furniture N.E.C., (ver. 1.2, 2018 01 26) and the general program guidelines by The International EPD System in accordance with ISO 14025 standards.

The inventory for the LCA study is based on the 2021 production figures for Oblivion Partition Walls manufactured by Koleksiyon Mobilya San. A.S. (Koleksiyon) in their production plants located in Tekirdag, Turkey.

This LCA was modelled with SimaPro 9.3 LCA software using the impact factors and Ecoinvent database (ver. 3.8) for secondary data.

EPD PROGRAMME	The International EPD® System www.environdec.com EPD Turkey, Istanbul - Turkey www.epdturkey.org
EPD OWNER	KOLEKSİYON MOBİLYA SANAYİ A.Ş. Istanbul - Turkey www.koleksiyon.com.tr www.koleksiyoninternational.com
DECLARED UNIT	One unit of furniture
EPD BASED ON PRODUCT CATEGORY RULES (PCR)	PCR 2012:19 Other Furniture Used in Offices and Other Furniture N.E.C., ver. 1.2, 2018-01-26 The International EPD® System
PCR REVIEW CONDUCTED BY	Technical Committee of the International EPD® System Review chair: Leo Breedveld www.environdec.com info@environdec.com
INDEPENDENT VERIFICATION AND DATA, ACCORDING TO ISO 14025:2006	<input type="checkbox"/> Internal <input type="checkbox"/> EPD® Process Certification <input checked="" type="checkbox"/> External
SYSTEM BOUNDARIES	<input type="checkbox"/> Cradle to Gate <input type="checkbox"/> Cradle to Gate with Option <input checked="" type="checkbox"/> Cradle to Grave
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EPDs within the same product category but from different programmes may not be comparable.

Company

Competitive in the global marketplace, Koleksiyon holds to global standards and has internalized the protection principles of natural resources, the environment and the provision of healthy and safe environments for all his employees, partners in all business processes.

The company continuously improves his processes with the integrated management system to ensure the fair balance between efficiency, productivity and safety.

Koleksiyon puts emphasis on internal waste management and facilitating a high level of recycling in all processes with a commitment to continuous improvement.

Using technology, environmentally friendly and recyclable materials when designing products and services, Koleksiyon always aims at protecting the environment as well as human safety. The brand is also willing to ensure that each employee truly knows the importance of his/her contribution towards the green and sustainable environment.

Koleksiyon has a recognized reputation for delivering design and service excellence both in its homeland of Turkey and around the world. The brand is known for its clean and understated intelligent design, for its quality of manufacture and for its insight into the needs and concerns of customers.

Based on its key guiding principles and fifty years' experience Koleksiyon designs are based on a profound knowledge of culture, history and geography. Its solutions reclaim the past that we know with colors, sounds and shapes. At the same time, Koleksiyon product designs anticipate the future we do not yet know. The aim is always to pursue excellence and to hold true to certain values. Koleksiyon knows that there is always a line that runs from the past to the future, that as well as local cultures and ideals, there are eternal and universal values that we all share and that what is essential is understanding the art and craft as it is tied up in a particular time and place.

Koleksiyon is compliant to following international standards: ISO 14001 EMS, ISO 45001, ISO 9001 QMS, ISO 10002 QM-CS, ISO 50001 EnMS, ISO/IEC 27001 ISMS.

Product Information

A theme in quest for the creative place; via cutting out big holes, one can create voids in the office plan which seems impossible in the overlogged layouts of our present time. Creating voids for areas of non-work places, we are faced with the archaic settlement of a communal place...

Oblivion is conceived as a very basic geometry, the conical shape provides many structural advantages apart from an aesthetic statement. All the vertical posts and brackets that are holding the horizontal surfaces, are pointing to the central point of the structure.

Therefore, all the vertical surfaces support the horizontal ones and vice versa. Thus, we can have all the shelves, desktops, seating units, etc, without the use of any leg supports. This provides a great freedom in practical use as well as a visual lightness to the design, where all horizontal surfaces are floating freely without a disruption of a column.

Each unit is constructed in several steps decided together with the architect and the customer. The first step is the floor diameter, the second decision is the height and the top diameter, thus a void is constructed in volume. Finally, the decisions for the inner construction and functions are made. This concerns the planning of the shelves, desks, cabinets, seats etc, depending on the desired performance that this void is dedicated to.

The next decision involves the electrical and electronical equipment, where the vertical and horizontal wiring can easily be conducted accordingly through the aluminium extruded beams. Following this, lighting solutions can be planned as LED strips in the vertical beams where necessary. Finally, the outer surface cover is installed. The colour can be selected in a presented fabric chart or again be developed uniquely with the customer if needed.

LIST OF MATERIALS FOR OBLIVION PARTITION WALLS



MATERIALS		CONTENTS (kg)
Main Body	Wood	326
	Steel	87.3
	Aluminium	55.9
Auxiliary Materials	ABS	3.90
	Paint	10.6
	Steel	17.2
Main or Auxiliary	Textile	19.6
	PU	16.5
	PP	0.056
Fittings	Steel	5.39
Packaging Materials	Corrugated Board	21.3
	Polyester	2.44

System Boundary

Upstream Process

Upstream processes include raw material extraction and production processes and manufacturing of auxiliary materials, chemicals and packaging materials.

Core Process

Core processes include transport of materials to the manufacturer and operations for manufacturing.

Manufacturing includes sizing and painting of product parts and assembly. The end products are then packaged to be sold. Electric energy and natural gas are consumed during manufacturing.

Downstream Processes

Downstream processes include transportation from manufacturer to consumer, product use and disposal of both product and packaging.

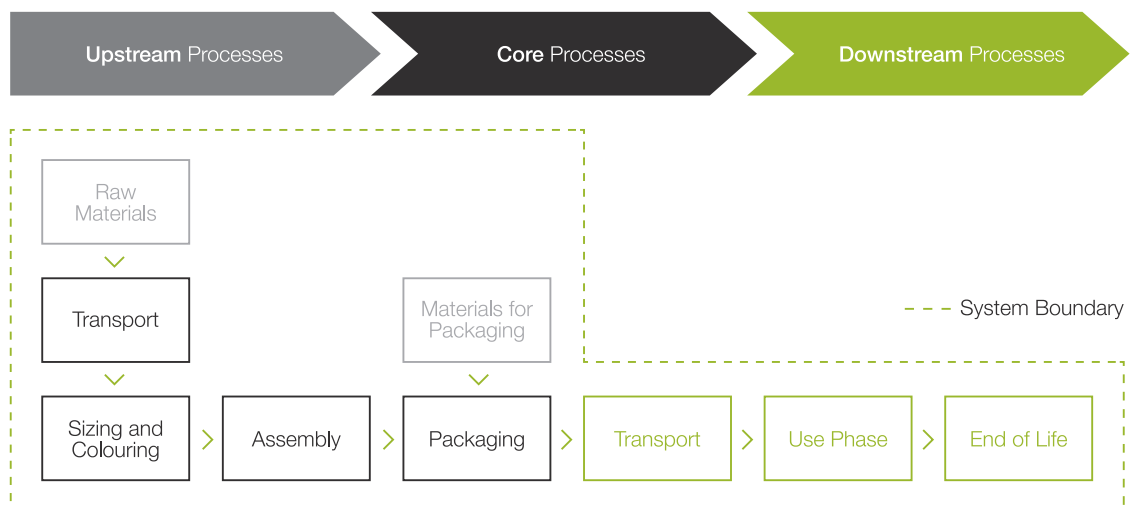
Distribution of final product to customer is assumed to be a default long distance transport of 1000 km by lorry defined by the PCR.

During use phase of the product, no energy or water is consumed. The product can be cleaned with a dry or damp cloth and do not require maintenance during its lifetime.

At the end of its life, it is expected from customers to dispose the product in accordance with the legal regulations of the country where they reside. The product is easy to disassemble and recycle. For the disposal scenario of the product European average recycling values were taken for steel, aluminium and plastic parts as 83%, 90% and 69.2% respectively. Other materials assumed to end up at landfill.

Packaging waste is assumed to end up at packaging recycling streams due to the relevant national law in Turkey in 2017, which requires manufacturers to have certain percentage of their packaging waste to be recovered.

SYSTEM BOUNDARY OF THE LCA STUDY CONDUCTED



Environmental Performance Related Information

FUNCTIONAL UNIT / DECLARED UNIT	The declared unit is the production of one unit of furniture with a minimum 15 years lifetime.
GOAL AND SCOPE	This EPD evaluates the environmental impacts of one unit of furniture from cradle to grave life cycle perspective.
SYSTEM BOUNDARY	The system boundary covers upstream, core and downstream processes within the life cycle.
ESTIMATES AND ASSUMPTIONS	<p>There are no additional product scenarios developed for this EPD.</p> <p>Distribution of final product to customer is assumed to be 1000 km by lorry.</p> <p>During use phase of the product, no energy or water consumption is assumed.</p> <p>At the end of its life, it was assumed that the metal parts of the product were recycled according to the European average recycling rates and the rest of the materials end up at landfill.</p> <p>Packaging waste for declared products are modelled based on the collection rates enforced by Packaging Waste Control Regulations of 26.06.2021 and No. 31523.</p>
CUT-OFF RULES	For this LCA study, 1% cut off criteria was applied.
BACKGROUND DATA	Ecoinvent, ver. 3.8, Switzerland
DATA QUALITY	Raw materials, electricity, natural gas, water use and waste data collected from Koleksiyon. Localized data especially on energy and other relevant processes were taken from database.
PERIOD UNDER REVIEW	All primary data collected from Koleksiyon plant is for the period year of 2021.
ALLOCATIONS	There are no co-products in the production of Oblivion Partition Walls manufactured by Koleksiyon. Hence, there was no need for co-product allocation. Use of energy per unit of furniture is allocated based on the time spent in the manufacturing line from yearly energy consumption of each workshop. Koleksiyon sources raw materials and goods from different locations across Turkey and other parts of the world and by different means of transport (truck, ship and train). For this reason, transport was allocated according to tonnages.

All the waste resulting from the main production and related processes of Koleksiyon is managed in accordance with valid legal requirements.

The results of the LCA with the indicators as per EPD requirement are given in the following tables for upstream, core and downstream processes shown in the system boundary section.

Global warming potential (GWP) for time span of 100 years, acidification potential with time span of eternity and eutrophication potential with time span of eternity were calculated using CML-IA baseline (August 2016, ver. 4.7),

Formation potential of tropospheric ozone photochemical oxidants with time span of 5 days was calculated using ReCiPe 2008 Midpoint (H) (ver. 1.13),

Renewable and non-renewable energy consumption were calculated using Cumulative Energy Demand (November 2018, ver. 1.11),

Human toxicity (cancer and non-cancer) and ecotoxicity were calculated using USEtox 2 (recommended + interim), July 2016, ver. 1.00),

Land use as sum of agricultural land occupation, urban land occupation and natural land transformation was calculated using ReCiPe 2016 Endpoint (H) (ver. 1.03, September 2018)

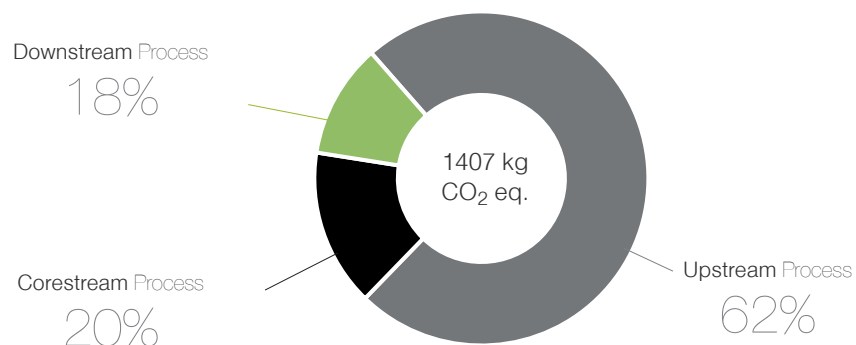
Water scarcity potential was calculated using AWARE (ver. 1.02).

ENVIRONMENTAL INDICATORS

RESOURCE USE						
Parameter		Unit	Upstream Processes	Core Processes	Downstream Processes	Total
NON-RENEWABLE RESOURCES						
Material	Calcite	[kg]	70.5	2.56	1.99	75.1
	Bauxite	[kg]	186	0.346	0.580	187
	Dolomite	[kg]	3.67	0.017	0.021	3.71
	Gravel	[kg]	204	32.1	101.2	338
	Iron	[kg]	147	1.130	2.59	151
	Sodium Chloride	[kg]	24.7	0.091	0.657	25.4
Energy	Hard Coal	[kg]	329	43.0	5.09	377
	Lignite	[kg]	62.5	73.3	1.71	138
	Oil, crude	[kg]	82.3	9.7	36.8	129
	Natural gas	[kg]	147	45.4	3.15	196
	Uranium	[MJ]	0.002	79.3E-6	85.3E-6	0.002
RENEWABLE RESOURCES						
Material	Wood	[kg]	0.820	2E-3	713E-6	0.822
Energy	Geothermal	[MJ]	13.3	63.1	0.420	76.8
	Wind power	[MJ]	141	102	5.09	249
	Hydropower	[MJ]	775	301	18.1	1094
	Biomass	[MJ]	10.1E+3	18.53	8.17	10.2E+3
	Solar	[MJ]	18.5	0.2	0.483	19.2
WATER USE						
Total amount of water		[m³]	259	6.96	0.340	266
Direct amount of water used by the core process		[m³]	0	5.13	0	5.13

OUTPUT FLOWS AND WASTE CATEGORIES					
Parameter	Unit	Upstream Processes	Core Processes	Downstream Processes	Total
HWD	[kg]	-	2.82	0	2.82
NHWD	[kg]	-	54.3	575	629
RWD	[kg]	-	0	0	0
Legend HWD: Hazardous Waste Disposed, NHWD: Non-Hazardous Waste Disposed, RWD: Radioactive Waste Disposed					

ENVIRONMENTAL IMPACTS					
Parameter	Unit	Upstream Processes	Core Processes	Downstream Processes	Total
GWP- fossil	[kg CO ₂ eq.]	1368	283	130	1780
GWP- biogenic	[kg CO ₂ eq.]	-516	2,24	117	-397
GWP- land use and transformation	[kg CO ₂ eq.]	22.0	1.50	0.060	23.6
GWP- total	[kg CO ₂ eq.]	873	287	246	1407
AP (fate not incl.)	[kg SO ₂ eq.]	8.5	1.28	0.456	10.27
EP	[kg PO ₄ eq.]	4.61	0.755	0.19	5.55
POCP	[kg NMVOC eq.]	4.79	0.69	0.426	5.91
ADPE	[kg Sb eq.]	0.028	343.3E-6	562E-6	0.029
ADPF	[MJ]	15.3E+3	3420	1809	20.5E+3
Water scarcity potential	[m ³]	7533	183	7.2	7723
HT, cancer	[cases]	400E-6	21.8E-6	11.6E-6	433E-6
HT, non-cancer	[cases]	455E-6	46.9E-6	78E-6	0.001
Freshwater ecotoxicity	[PAF.m ³ .day]	44.9E+6	2.34E+6	6.9E+6	54.1E+6
Land use	[species.yr]	5.41E-6	23.4E-9	41.7E-9	5.47E-6
Legend GWP: Global Warming Potential, AP: Acidification Potential, EP: Eutrophication Potential, POCP: Formation Potential of Tropospheric Ozone Photochemical Oxidants, ADPE: Abiotic depletion potential - Elements, ADPF: Abiotic depletion potential - Fossil fuels, HT: Human Toxicity					



References

ISO 14001

Environmental Management Systems

ISO 45001

Occupational Health and Safety Management Systems

ISO 9001

Quality Management System

ISO 14020

Environmental labels and declarations- General principles

ISO 14025

DIN EN ISO 14025:2009-11: Environmental labels and declarations - Type III environmental declarations - Principles and procedures

ISO 14040/44

DIN EN ISO 14040:2006-10, Environmental management - Life cycle assessment - Principles and framework (ISO 14040:2006) and Requirements and guidelines (ISO 14044:2006)

PCR FOR OTHER FURNITURE USED IN OFFICES AND OTHER FURNITURE N.E.C.

Prepared by IVL Swedish Environmental Research Institute, Swedish Environmental Protection Agency, SP Trä, Swedish Wood Preservation Institute, Swedisol, SCDA, Svenskt Limträ AB, SSAB, The International EPD System, ver. 1.2, Date 2018 01 26

THE INTERNATIONAL EPD® SYSTEM

The International EPD® System is a programme for type III environmental declarations, maintaining a system to verify and register EPD®s as well as keeping a library of EPD®s and PCRs in accordance with ISO 14025. www.environdec.com

ECOINVENT

Ecoinvent Centre, www.Eco-invent.org

SIMAPRO

SimaPro LCA Software, Pré Consultants, the Netherlands, www.pre-sustainability.com






RECYCLING RATES

Steel: Post consumer steel product recovery rate by sector, weighted global average, World Steel Association, Sustainable Steel, At the core of a green economy, 2012.

Aluminium: Aluminium Recycling in Europe, European Aluminium Association and Organisation of Aluminium Refiners and Remelters, 2006.

Plastic: Plastics – the Facts 2016, An analysisi of European plastics production, demand and waste data, Plastics Europe, 2016.

Verification & Registration

	<p>The International EPD® System www.environdec.com</p> <p>EPD registered through the fully aligned regional programme: EPD Turkey www.epdturkey.org</p> <p>EPD International AB Box 210 60 SE-100 31 Stockholm, Sweden</p> <p>EPD Turkey: SÜRATAM A.Ş. Nef 09 B Blok No:7/15, 34415 Kağıthane / İstanbul, Turkey www.suratam.org</p>	 THE INTERNATIONAL EPD® SYSTEM
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