

ENVIRONMENTAL PRODUCT DECLARATION

ondarreta



Hari

Chair

IN ACCORDANCE WITH ISO 14025:2006

PROGRAMME: The International EPD® System, www.environdec.com

PROGRAMME OPERATOR: EPD International AB

REFERENCE PCR: PCR 2009:02. Seats, 2009:02, version 3.0.2, UN CPC 3811

EPD REGISTRATION NUMBER: S-P-08979

PUBLICATION DATE: 13/04/2023

VALID UNTIL: 11/04/2028

En EPD should provide current information and may be updated if conditions change. The stated validity is, therefore, subject to the continued registration and publication at www.environdec.com

COMPANY INFORMATION

Ondarreta is an organization located in Oiartzun (Guipúzcoa) dedicated to the design, production and commercialization of tables, chairs and auxiliary furniture for the home and collectivities, an activity it has been developing since its foundation in 1973. Ondarreta is committed to keeping its environmental impact to a minimum, to caring for the great natural heritage shared by all of us, thanks to global management, sustainable practices and choosing its materials, methods and processes to represent the least possible risk to our environment. In turn, it is committed at all levels to create enduring designs and to reduce the use of energy, raw materials and other resources with an emphasis on Ecodesign.

In the Ecodesign process, the scope is established exclusively for chairs and tables. In the Integrated Management System, the processes of design and development, purchasing, production and supply of the products are included.

During all of these stages, Ondarreta works hand in hand with continuous improvement systems, such as ISO 9001 for quality, ISO 14001 for environmental management and within the framework of ISO 14006 for Ecodesign, with AENOR certifications for HARI chair among other products.

The materials are carefully selected and the seating products are tested under the most restrictive European regulations regarding furniture, EN 16139: 2013 in the category of non-domestic use, in order to ensure appropriate resistance, safety, and long life cycle.

Ondarreta products are 100% made in Europe and raw materials are selected from local suppliers, as closest as possible. It uses partially recycled materials for packaging, breaks products down as much as possible minimizing the volume of packaged products, and palletizes to make efficient use of space in transportation. In turn, Ondarreta makes an effort so that all trucks leave with a full load and preference is given to shared loads transport.

PRODUCT INFORMATION

From the collaboration between Ondarreta and Estudi{H}ac, the HARI family has emerged.

This seating collection made up of chairs, armchairs and stools, is inspired by the world of textile looms, and the very industrial aesthetic and the delicacy of the threads create a subtle and elegant collection.

The HARI chair, simple yet forceful, tested under the European standard EN 16139:2013, in severe use category, L2, features a cylindrical tube steel structure with epoxy finish, beech plywood backrest with stained finish and upholstered beech plywood seat, with a medium density polyurethane foam padding HARI, which means "thread" in Basque, honors the connection that links this design with tailoring through the back piece inspired by the world of balls of yarn.

The versatility of this chair offers an infinite number of possibilities, so that it can be used in various environments, whether in the home, restaurants, meeting rooms or different facilities where the combination of the texture and materials of the HARI chair fits into a particular aesthetic universe.

The metal structure can be combined with wood or polypropylene and play with a whole range of upholsteries, allowing the customer to choose the final look.

Wanting to keep its environmental impact to a minimum, Ondarreta presents two more versions of HARI made out of wood polypropylene, a material that blends waste from the wood-production process and 100% recycled polypropylene, which incorporates post-industrial polymers and recycled material resulting from bottle caps. By using these new compounds, carbon emissions are avoided in addition to having reduced the amount of waste generated during the production processes.

The analysed and declared product corresponds to the wood HARI Chair model with varnished beech backrest and Chili-type upholstery.

MATERIALS OF HARI CHAIR



DIMENSIONS

47,5 cm x 55 cm x 81,5 cm x 46 cm [width x depth x height x seat height]

HARI CHAIR		kg	%	% recycled
	steel	2,965	46,08	80
	wood - beech	2,238	34,78	0
	glue	0,354	5,50	0
	paint	0,345	5,36	0
	alloy (Cu ,Zn, Al)	0,28	4,35	0
	polyester	0,137	2,13	90
	polyurethane	0,099	1,54	0
	brass	0,008	0,12	0
	LDPE	0,008	0,12	0
PACKAGING		kg	%	% recycled
	cardboard	1,1	40	70
	wood – pallet	1,56	57	0
	HDPE	0,06	2	0
	polypropylene	0,009	0,1%	0
	paper	0,0132	0,1%	0

Table 1. Materials HARI Chair

ENVIRONMENTAL AND SOCIAL RESPONSIBILITY

It is our mindset—and not momentary esthetic trends—that we want to see emerge in every one of our designs.

We want our furniture to stand up for the values of honesty and sustainability. We work with materials like: natural wood, recycled plastics and recycled steel, to keep Ondarreta's environmental impact to a minimum.

The steel raw material consists basically of scrap mixtures with a percentage of recycled material higher than 80%, being the steel 100% recyclable.

Ondarreta declares for all wood products, the local purchase trying to minimize the impact on the environment due to transport. All the wooden components in the catalog are produced in Europe under forestal control and in no case works with tropical woods. Ondarreta and the surrounding suppliers take part of the Chain of Custody under the FSC or PEFC requirements, and the adhesives used are low in formaldehyde content.

For upholstered chairs the selected fabric suppliers are European manufacturers that comply with the regulations and are concerned about Ecodesign. They have certificates such as STANDARD 100 by OEKO-TEX®, Greenguard Ecolabel and EU Ecolabel.

Regarding the content of hazardous substances and the emissions of Volatile Organic Compounds, Ondarreta is committed with objective of achieving more Healthy Interiors, placing itself in a favourable position with regard to the care of our environment. The components of Ondarreta do not have emissions of VOCs in a substantial way, which means that together with the signed Red List statements and certificates of the suppliers, they are exempt from tests. The coating is the only component with VOCs, what constitutes less than the 0.8% of the weight of stained wooden products in the case of the varnish.

Ondarreta has the following certificates that recognise our commitment with the environment:

- UNE-EN ISO 14006:2011 for ECODESIGN
- ISO 14001:2015 for Environmental management
- ISO 9001:2015 for Quality management

ENVIRONMENTAL INFORMATION

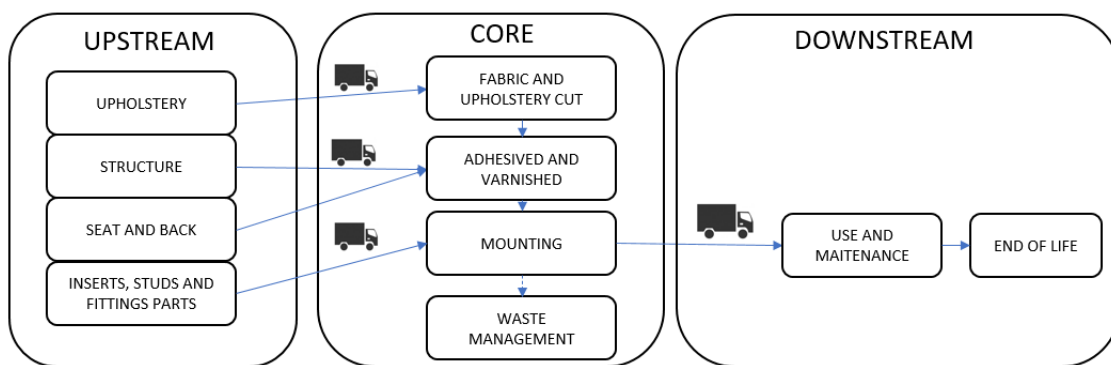
DECLARED UNIT

The declared unit is the manufacture and use of one HARI chair for 15 years, including packaging, maintenance and end of life. The useful life of the product has been estimated at 15 years, which is represented in the declared unit.

SYSTEM BOUNDARIES

Cradle to grave. The boundaries established for this system go from production of raw materials to the end of life of the product and its packaging. No cut-off rules were applied.

SYSTEM DIAGRAM



TIME REPRESENTATIVENESS

Primary data originate from Ondarreta and refers to the year 2021.

DATABASE AND SOFTWARE USED

Ecoinvent 3.8 & SIMAPRO 9.3.0.3.

GEOGRAPHICAL BOUNDARIES

Ondarreta products are 100% made in Europe and raw materials are selected from local suppliers, as closest as possible. The product is sold internationally.

EXCLUDED LIFECYCLE STAGES

The following processes were excluded from this LCA: manufacturing of capital goods and spare parts and/or maintenance with a life of more than three years and the impact caused by people's activities. The processes associated with the production of fuels are intrinsically included in the indicators of Ecoinvent database used in the LCA.

ENVIRONMENTAL IMPACT ASSESSMENT**ENVIRONMENTAL IMPACT INDICATORS**

category of impact	unit	UPSTREAM	CORE	DOWNSTREAM	TOTAL
Climate change - Fossil	kg CO2 eq	1,03E+01	1,50E+00	3,05E+00	1,49E+01
Climate change - Biogenic	kg CO2 eq	-7,25E+00	1,49E-02	1,54E+00	-5,69E+00
Climate change - Land use and LU change	kg CO2 eq	8,84E-02	7,80E-03	1,22E-03	9,74E-02
Climate change - Total	kg CO2 eq	3,16E+00	1,52E+00	4,60E+00	9,28E+00
Acidification	mol H+ eq	7,24E-02	2,84E-03	1,25E-02	8,77E-02
Eutrophication, freshwater [PO43 eq]	kg PO43 eq	1,62E-02	3,54E-04	6,09E-04	1,72E-02
Eutrophication, freshwater	kg P eq	5,29E-03	1,15E-04	1,98E-04	5,60E-03
Eutrophication, marine	kg N eq	1,66E-02	6,37E-04	2,92E-03	2,01E-02
Eutrophication, terrestrial	mol N eq	1,70E-01	6,81E-03	3,18E-02	2,09E-01
Photochemical ozone formation	kg NMVOC eq	5,36E-02	2,23E-03	9,57E-03	6,54E-02
Ozone depletion	kg CFC11 eq	1,08E-06	2,24E-07	4,12E-07	1,71E-06
Abiotic depletion (non-fossil resources)	kg Sb eq	6,67E-04	1,17E-05	1,11E-05	6,90E-04
Abiotic depletion (fossil resources)	MJ	1,88E+02	2,28E+01	2,96E+01	2,40E+02
Water use	m3 depriv.	9,08E+00	4,88E-01	3,98E-01	9,97E+00
Human toxicity, cancer (PCR 2009:02)	cases	4,00E-06	1,67E-07	1,87E-07	4,36E-06
Human toxicity, non-cancer (PCR 2009:02)	cases	6,56E-06	2,12E-07	3,23E-07	7,09E-06
Freshwater ecotoxicity (PCR 2009:02)	PAF.m3.day	1,33E+05	1,82E+04	3,94E+03	1,56E+05

Table 2. Environmental impact indicators obtained for HARI Chair

INVENTORY INDICATORS

parameter	unit	UPSTREAM	CORE	DOWNSTREAM	TOTAL
Primary energy resources – Renewable					
Used as energy carrier	MJ	5,62E+01	1,31E+01	6,80E-01	7,00E+01
Used as raw materials	MJ	1,14E+02	0,00E+00	0,00E+00	1,14E+02
Total	MJ	1,71E+02	1,31E+01	6,80E-01	1,84E+02
Primary energy resources – Non-renewable					
Used as energy carrier	MJ	1,79E+02	2,28E+01	2,96E+01	2,31E+02
Used as raw material	MJ	1,59E+01	0,00E+00	0,00E+00	1,59E+01
Total	MJ	1,95E+02	2,28E+01	2,96E+01	2,47E+02

Table 3. Inventory indicators obtained for HARI Chair

ondarreta

CONTACT

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CERTIFICATION AND PROGRAMME INFORMATION

EPD REGISTRATION NUMBER: S-P-08979

PUBLICATION DATE: 13/04/23

VALID UNTIL: 11/04/28

REFERENCE YEAR: 2021

GEOGRAPHICAL SCOPE: GLOBAL

UN CPC CODE: 3811 SEATS

PROGRAMME

The International EPD® System EPD International AB, www.environdec.com,
info@environdec.com (Box 210 60, SE-100 31 Stockholm, Sweden)

PRODUCT CATEGORY RULES (PCR)

Seats, 2009:02, version 3.0.2, UN CPC 3811

PCR REVIEW WAS CONDUCTED BY

Leo Breedveld, 2B Srl, breedveld@to-be.i

LIFE CYCLE ASSESMENT (LCA)

IK INGENIERIA

www.ik-ingenieria.com

THIRD PARTY VERIFICATION

Independent third-party verification of the declaration and data, according to ISO 14025:2006,
via:

☐ EPD process certification ☒ EPD verification

Third-party verification: TECNALIA R&I Certificación, S.L. (Área Anardi, 5. Apdo. 134 E20730 Azpeitia, Guipúzcoa, Spain) as an approved certification body accountable for third party verification.

Third-party verifier is accredited by: ENAC (Accreditation number: 125/C-PR283)

Procedure for follow-up of data during EPD validity involves third-party verifier:

☒ Yes ☐ No

EPDs within the same product category but from different programmes may not be comparable.

The EPD owner has the sole ownership, liability and responsibility of the EPD

BIBLIOGRAPHY

- www.ondarreta.com
- ISO 14040:2006. Environmental management — Life cycle assessment — Principles and framework.
- ISO 14044:2006. Environmental management — Life cycle assessment — Requirements and guidelines.
- ISO 14025:2006: Environmental labels and declarations. Type III environmental declarations. Principles and procedures.
- PCR 2009:02 Seats (seating, chairs) (3.0.2) International EPD System.
- General Program Instructions for the International EPD System version 3.01.

VERIFICATION STATEMENT CERTIFICATE CERTIFICADO DE DECLARACIÓN DE VERIFICACIÓN

Certificate No. / Certificado nº: EPD08801

TECNALIA R&I CERTIFICACION S.L., confirms that independent third-party verification has been conducted of the Environmental Product Declaration (EPD) on behalf of:

TECNALIA R&I CERTIFICACION S.L., confirma que se ha realizado verificación de tercera parte independiente de la Declaración Ambiental de Producto (DAP) en nombre de:

ONDARRETA MESAS Y SILLAS, S.L.
Zuaznabar 83
20180 OIARTZUN (Gipuzkoa) - SPAIN

for the following product(s):
para el siguiente(s) producto(s):

HARI CHAIR
SILLA HARI

with registration number **S-P-08979** in the International EPD® System (www.environdec.com).
con número de registro S-P-08979 en el Sistema Internacional EPD® (www.environdec.com).

it's in conformity with:
es conforme con:

- **ISO 14025:2010 Environmental labels and declarations. Type III environmental declarations.**
- **General Programme Instructions for the International EPD® System v.3.01.**
- **PCR 2009:02 Seats v.3.0.2**
- **UN CPC 3811 Seats**



Carlos Nazabal Alsua
Manager

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Serial Nº / Nº Serie:	EPD0880100-E

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