

EPD Environmental Product Declaration



Series ALDEA
REF: PLDB8
Dimensions: 91 x 81 x 89 cm

Aldea is harmony made tangible, a balance between minimalist lines and noble materials. Its wooden arms, together with the seat and back cushions, offer a sense of warmth and comfort that transcends trends. More than a piece of furniture, it is an invitation to pause, to enjoy a space designed to inspire tranquility and elegance.

RAW MATERIALS USED (PACKAGING INCLUDED)

	Kg of raw materials included in the product	% of raw materials included in the product
OAK WOOD	7,120	31,15%
PARTICLE BOARD	7.320	32,03%
STEEL	0,691	3,02%
POLYAMIDE	0,005	0,02%
POLYPROPYLEBE	0,126	0,55%
POLYURETHANE	4,580	20,04%
POLYESTER	0,244	1,07%
CARDBOARD	2,710	11,86%
POLYETHYLENE	0,059	0,26%
Total	22,885	100%

% Recycled Materials: 81,31%
% Recyclable Materials: 33,57%

The Environmental Product Declaration for Aldea has been calculated and prepared in accordance with the guidelines established by ISO 14025 Type III, and is based on the product category rules "PCR 2012-19, Furniture, except seats and mattresses," version 2.01.

ALDEA, LIFE CYCLE INFORMATION

FUNCTIONAL UNIT

The functional unit consists of one ALDEA, weighing 22.885 kg, operating over a service life of 15 years.

SYSTEM LIMITS

The established system boundaries include: raw materials, production (processes and facility maintenance), transportation, packaging, distribution, use, and end-of-life, including both product and packaging.

SCOPE

The scope of the system includes the whole life cycle of the product, from obtaining the raw material, manufacturing, use and end of life. The system has been divided into three phases:

- UPSTREAM: including raw materials production
- CORE: including raw material transport to Forma5 (Spain, Seville), product manufacturing process and waste treatment.
- DOWNSTREAM: Distribution to the customer, maintenance, use of the product and both the end of life of the product and the packaging has been included.

CERTIFICATES

- ISO 9001:2015
- ISO 14001:2015
- ISO 14006:2011
- ISO 45001:2018
- TECNALIA QUALITY MARK

Grupo Forma 5, S.L.U.
Manufactured in Spain, European Union.

Prepared by: Luis Carlos González Valencia
Industrial Technical Engineer, University of Seville
Official Association of Technical Engineers of Seville (COGITISE)
Membership number: 9129.

**GONZALEZ
VALENCIA
LUIS CARLOS
- 28729561P**

Digitally signed by
GONZALEZ
VALENCIA LUIS
CARLOS - 28729561P
Date: 2025.02.12
14:59:03 +01'00'

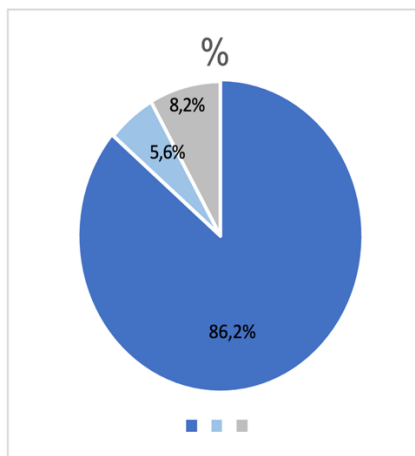
IMPACTS PER CATEGORIES

EPD 2018 ¹ Indicators per categories	Unit	CORE Impact result	UPSTREAM Impact result	DOWNSTREAM Impact result	TOTAL
Abiotic depletion, elements	kg Sb eq	-1,06E-13	3,447E-07	3,129E-14	3,447E-07
Acidification (fate not incl.)	kg SO ₂ eq	3,012E-03	1,973E-02	4,442E-03	2,719E-02
Photochemical oxidation	kg NMVOC	4,224E-03	1,909E-02	6,247E-03	2,956E-02
Eutrophication	kg PO ₄ --- eq	5,856E-04	2,255E-03	7,687E-04	3,609E-03
Climate Change(Carbon Footprint)	kg CO ₂ eq	5,068E-01	7,850E+00	7,472E-01	9,104E+00
Abiotic depletion, fossil fuels	MJ	6,539E+02	3,427E+02	8,894E+01	1,086E+03
Ozone layer depletion (ODP) (optional)	kg CFC-11 eq	8,833E-10	2,973E-07	6,247E-03	6,248E-03
Water scarcity	m ³ eq	1,740E-03	9,573E-01	8,895E-02	1,048E+00

Table 1. Impacts by Category in the ALDEA family.

This method is the successor to EPD (2013) and is intended for the creation of Environmental Product Declarations (EPD), as published on the website of the Swedish Environmental Management Council (SEMC). For further information, see also the "General Programme Instructions for the International EPD System 3.0", dated December 11, 2017. The latest update of the recommendations included in this method was issued on 2018-06-08 (adding the Water Scarcity Footprint). Contact information: <http://www.environdec.com/>

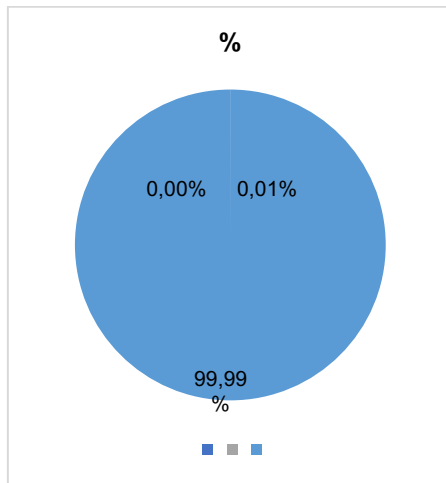
CLIMATE CHANGE (CARBON FOOTPRINT)



Etapa	Unidad	Total
Upstream	kg CO ₂ eq	7,85E+00
Core	kg CO ₂ eq	5,07E-01
Downstream	kg CO ₂ eq	7,47E-01

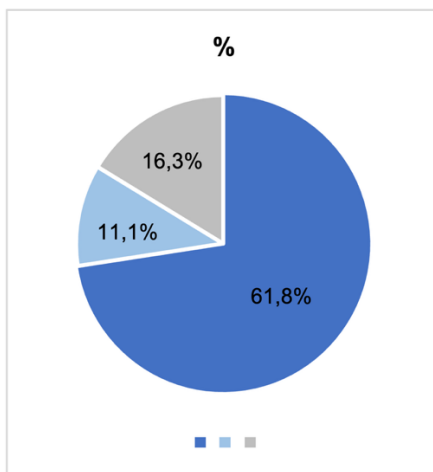
¹ This method is the successor to EPD (2013) and is intended for the creation of Environmental Product Declarations (EPDs), as published on the website of the Swedish Environmental Management Council (SEMC). For more information, see also the "General Programme Instructions for the International EPD System 3.0" dated December 11, 2017. The latest update of the recommendations included in this method was issued on 2018-06-08 (adding the Water Scarcity Footprint). Contact information: <http://www.environdec.com/>

OZONE LAYER DEPLETION



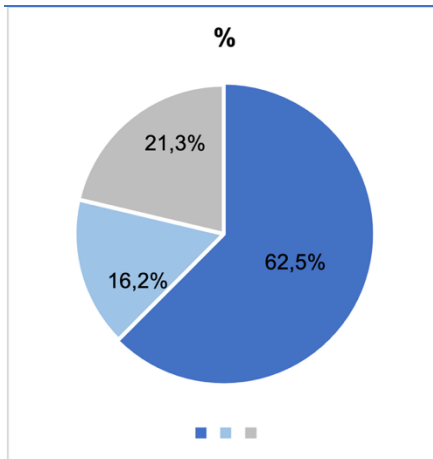
Phase	Unit	Total
Upstream	kg CFC-11 eq	2,973E-07
Core	kg CFC-11 eq	8,833E-10
Downstream	kg CFC-11 eq	6,247E-03

ACIDIFICATION



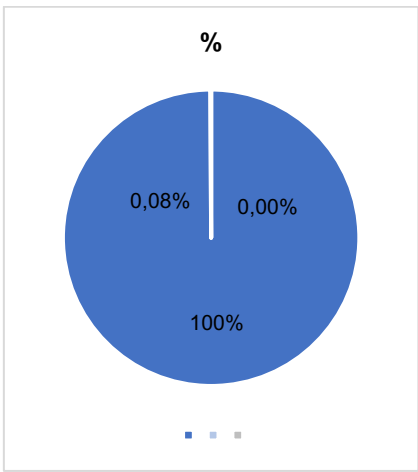
Phase	Unit	Total
Upstream	kg SO2 eq	1,973E-02
Core	kg SO2 eq	3,012E-03
Downstream	kg SO2 eq	4,442E-03

EUTROPHICATION



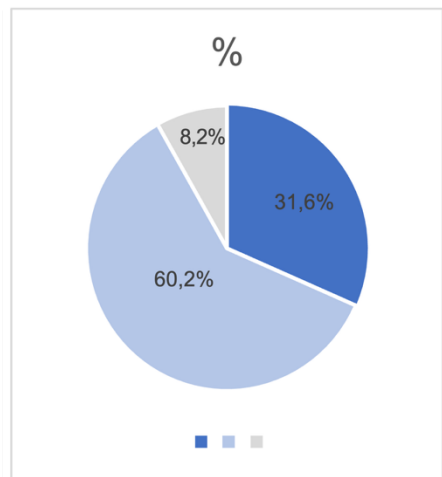
Phase	Unit	Total
Upstream	kg PO4--- eq	2,255E-03
Core	kg PO4--- eq	5,856E-04
Downstream	kg PO4--- eq	7,687E-04

ABIOTIC DEPLETION



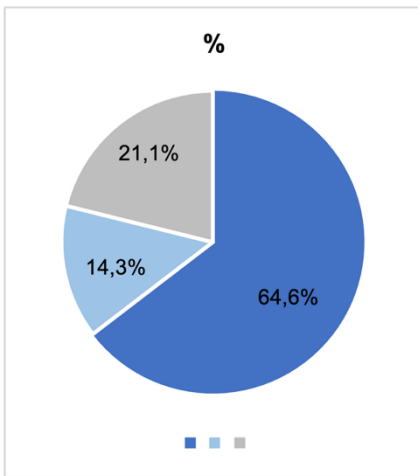
Phase	Unit	Total
Upstream	kg Sb eq	3,447E-07
Core	kg Sb eq	-1,062E-13
Downstream	kg Sb eq	3,129E-14

ABIOTIC DEPLETION OF FOSSIL FUELS



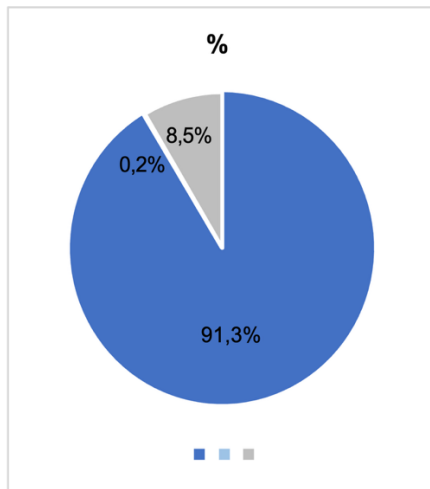
Phase	Unit	Total
Upstream	MJ	3,427E+02
Core	MJ	6,539E+02
Downstream	MJ	8,894E+01

PHOTOCHEMICAL OXIDATION



Phase	Unit	Total
Upstream	kg NMVOC	1,909E-02
Core	kg NMVOC	4,224E-03
Downstream	kg NMVOC	6,247E-03

WATER SCARCITY



Phase	Unit	Total
Upstream	m3 eq	9,573E-01
Core	m3 eq	1,740E-03
Downstream	m3 eq	8,895E-02

USE OF RESOURCES

RESOURCES	unit	CORE	UPSTREAM	DOWNSTREAM
Products				
Energy non renewable	MJ	7,50E+00	9,03E+01	1,04E-01
Energy renewable	MJ	4,35E+01	3,42E-01	0,00E+00
Secondary fuel	MJ	0,00E+00	0,00E+00	1,41E+06
Secondary fuel renewable	MJ	0,00E+00	0,00E+00	0,00E+00
Materials	kg	1,02E-02	1,86E+02	1,41E+01
Fresh wáter used	m³	4,30E-01	8,62E+01	6,60E-02

CATEGORIES OF WASTE AND OUTPUT FLOWS

RESOURCES	Unit	CORE	UPSTREAM	DOWNSTREAM
Products				
Hazardous waste	kg	8,37E-08	5,12E-09	7,68E-02
Non-hazardous waste	kg	4,36E+00	4,43E+00	1,58E-01
Radioactive waste	kg	1,44E-01	1,89E+00	3,08E-07