Forma 5

EPD Environmental Product Declaration

Program CHAIR DOT PRO
REF:
Dimensions:

This office chair is designed for workstations, with a polypropylene seat and a black mesh backrest that includes lumbar support. It features a STAR-type swivel base, equipped with a set of casters and a steel piston with a lever for height adjustment. It also incorporates a Synchro Motion mechanism for greater comfort and ergonomics.

RAW MATERIALS USED (PACKAGING INCLUDED)

	Kg of raw materials included in the product	% of raw materials included in the product
FLEXIBLE POLIURETE FOAM	0,700	4,59%
PAPER BOARD	0,290	1,90%
POLYESTER	1,6	10,48%
STEEL	5,44	35,64%
POLYPROPYLENE	2,204	14,44%
POLYAMIDE	0,430	2,82%
REINFORCED POLYAMIDE (10GF,15GF,30GF)	1,555	10,19%
ALUMINIUM	1,2	7,86%
POLYURETHANE	0,3	1,97%
POLYPROPYLENE (30PIR)	1,52	9,96%
POLYETHILENE	0,024	0,16%
Total	**15,263**	**100%**

% Recycled Materials: 33,14%
% Recyclable Materials: 86,24%

This Program DOT.PRO Environmental Product Declaration (EPD) has been calculated and prepared in accordance with ISO 14025 Type III and based on PCR 2019:14 (Construction Products) and c-PCR-021 (Furniture), with defined indicators EN 15804+A2.

DOT PRO CHAIR, life cycle information

FUNCIONAL UNIT

The functional unit consists of an Dot pro chair operating for a 15-year useful life.

SYSTEM LIMITS

The limits of the system include raw material, production (includes processes and facility maintenance), transportation, packaging, distribution, use, and end-of-life of both packaging and product.

SYSTEM SCOPE

The system boundaries include the full life cycle of the product, from raw material extraction through manufacturing, use, and end-of-life. The system has been divided into the following phases:

- **A1–A3. PRODUCT (UPSTREAM):** including the production of raw materials.
- **A4–A5. CONSTRUCTION / INSTALLATION (CORE):** including the transport of these raw materials to Grupo Forma 5 (Seville, Spain), the product manufacturing process, and waste treatment and management.
- **B1–B7. USE (DOWNSTREAM):** including distribution to the customer, maintenance, and use of the product.
- **C1–C4. END OF LIFE (DISPOSAL):** including the end of life of both the product itself and its packaging. This also includes transport to landfill, recycling, or reuse facilities.

ADDITIONAL INFORMATION

This Environmental Product Declaration (EPD) has been calculated and prepared in accordance with ISO 14025 Type III, based on PCR 2019:14 (Construction Products) and c-PCR-021 (Furniture). The indicators defined in EN 15804+A2 have been used.
For its development, the BAFU (2025) database was used, together with openLCA 2.6.1 (2026) software and the Environmental Footprint method (version 3.1).
This EPD (Environmental Product Declaration) has a validity period of 5 years.

CERTIFICATES

- ISO 9001:2015
- ISO 14001:2015
- ISO 14006:2011
- ISO 45001:2018
- MARCA DE CALIDAD TECNALIA

Grupo Forma 5., S.L.u.
Made in Spain, UE.

GONZALEZ VALENCIA LUIS CARLOS - 28729561P

Digitally signed by GONZALEZ VALENCIA LUIS CARLOS - 28729561P
Date: 2026.05.07 17:46:01 +02'00'

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Official College of Technical Engineers of Sevilla (COGITISE).
Membership number: 9129.

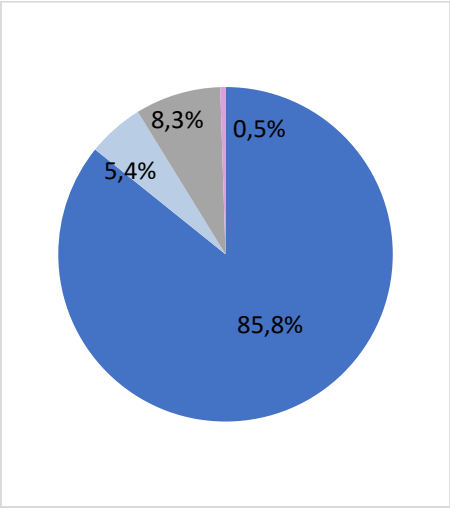
IMPACTS PER CATEGORIES

Environmental Footprint[1] Category and indicators	Unit	A1-A3 PRODUCT	A4-A5 CORE	B1-B7 USE	C1-C4 DISPOSAL	TOTAL
Acidification	mol H+ eq	6,261E-02	7,706E-02	1,295E-02	8,275E-04	1,535E-01
Climate Change (total)	kg CO2 eq	1,346E+00	2,122E+01	2,048E+00	1,251E-01	2,474E+01
Climate Change - biogenic	kg CO2 eq	0,000E+00	0,000E+00	0,000E+00	0,000E+00	0,000E+00
Climate Change - fossil	kg CO2 eq	1,346E+00	2,122E+01	2,048E+00	1,251E-01	2,474E+01
Climate Change, land use	kg CO2 eq	0,000E+00	0,000E+00	0,000E+00	0,000E+00	0,000E+00
Eutrophication freshwater	kg P eq	-1,075E-05	8,415E-04	7,666E-07	9,945E-08	8,316E-04
Eutrophication marine	kg N eq	1,645E-02	2,398E-02	6,068E-03	3,435E-04	4,685E-02
Eutrophication terrestrial	mol N eq	1,828E-01	1,260E-01	6,656E-02	3,800E-03	3,791E-01
Ozone depletion	kg CFC11 eq	-6,181E-10	4,729E-07	3,159E-09	1,220E-09	4,766E-07
Photochemical ozone formation,	kg NMVOC eq	4,566E-02	2,809E-02	1,679E-02	9,536E-04	9,149E-02
Resource use, minerals and metals	kg Sb eq	-4,960E-08	7,381E-06	5,438E-14	1,444E-12	7,331E-06
Water scarcity	m3	-8,760E-04	3,375E+01	2,232E-01	1,611E-03	3,398E+01

Table 1. Impacts per Categories in Dot pro chair family.

[1] The Environmental Footprint (version 3.1) method, published by the European Commission's Joint Research Centre in July 2022, is the current standard for Life Cycle Impact Assessment (LCIA).

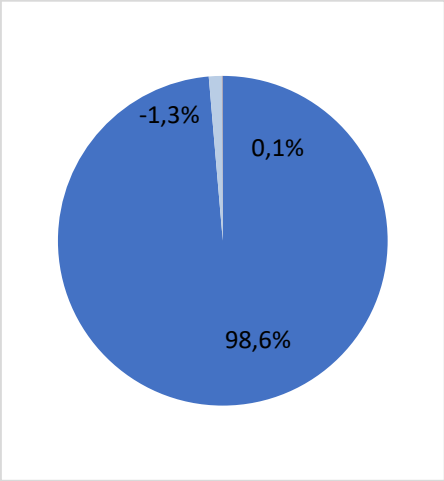
TOTAL CLIMATE CHANGE[2] (CARBON FOOTPRINT)



Etapa	Unidad	Total
Product A1-A3	kg CO2 eq	2,12E+01
Core A4-A5	kg CO2 eq	1,35E+00
Use B1-B7	kg CO2 eq	2,05E+00
Disposal C1-C4	kg CO2 eq	1,25E-01

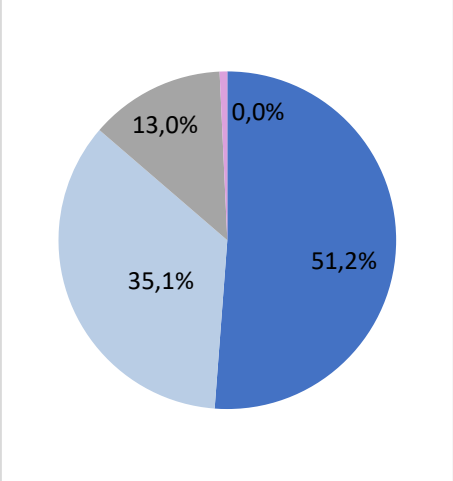
[2] The fossil climate change indicator is the same as the total. The biogenic climate change and land use change indicators are zero and therefore are not shown in the pie charts.

FRESH WATER EUTROPHICATION



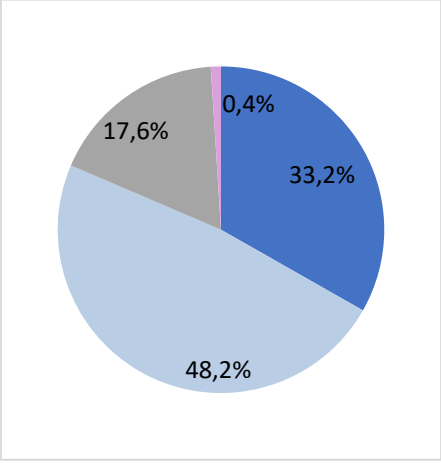
Etapa	Unidad	Total
Product A1-A3	kg P eq	8,415E-04
Core A4-A5	kg P eq	-1,075E-05
Use B1-B7	kg P eq	7,666E-07
Disposal C1-C4	kg P eq	9,945E-08

MARINE EUTROPHICATION



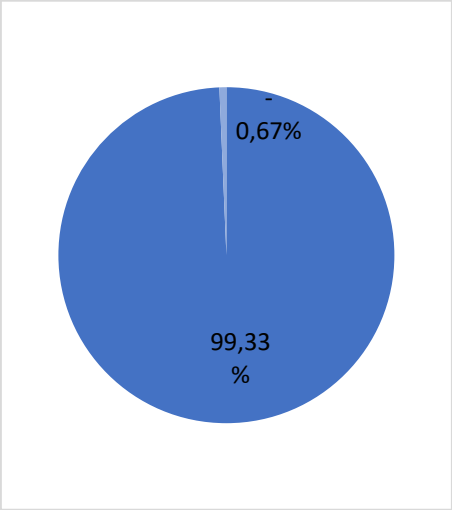
Etapa	Unidad	Total
Product A1-A3	kg N eq	2,398E-02
Core A4-A5	kg N eq	1,645E-02
Use B1-B7	kg N eq	6,068E-03
Disposal C1-C4	kg N eq	3,435E-04

TERRESTRIAL EUTROPHICATION



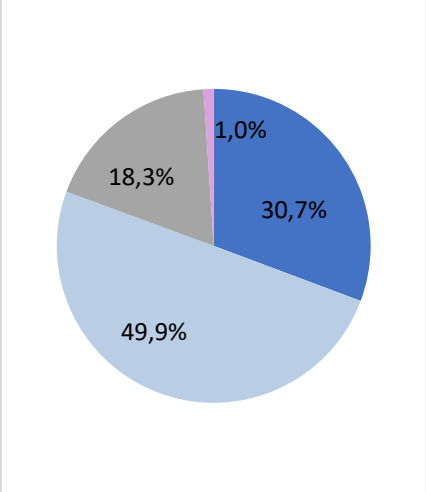
Etapa	Unidad	Total
Product A1-A3	Mol N eq	2,398E-02
Core A4-A5	Mol N eq	1,645E-02
Use B1-B7	Mol N eq	6,068E-03
Disposal C1-C4	Mol N eq	3,435E-04

USE OF MINERALS AND METALS RESOURCE (ABIOTIC DEPLETION)



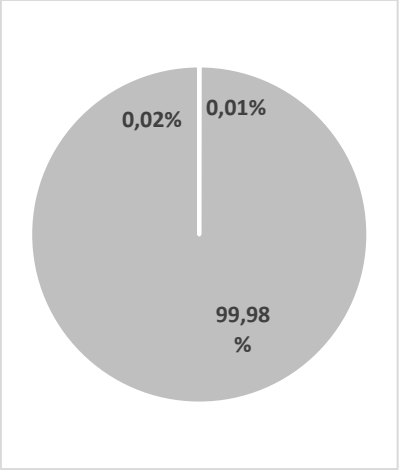
Etapa	Unidad	Total
Product A1-A3	Kg Sb eq	7,381E-06
Core A4-A5	Kg Sb eq	-4,960E-08
Use B1-B7	Kg Sb eq	5,438E-14
Disposal C1-C4	Kg Sb eq	1,444E-12

PHOTOCHEMICAL OZONE FORMATION



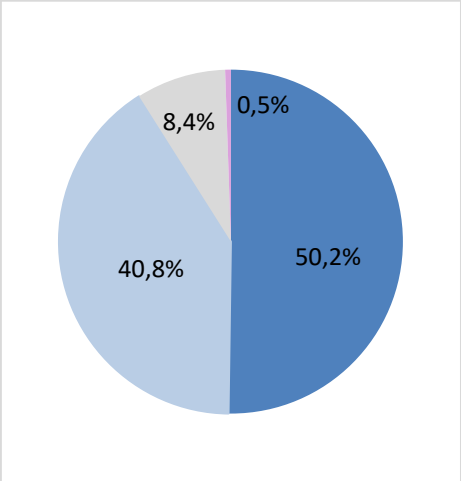
Etapa	Unidad	Total
Product A1-A3	kg NMVOC eq	2,809E-02
Core A4-A5	kg NMVOC eq	4,566E-02
Use B1-B7	kg NMVOC eq	1,679E-02
Disposal C1-C4	kg NMVOC eq	9,536E-04

OZONE DEPLETION



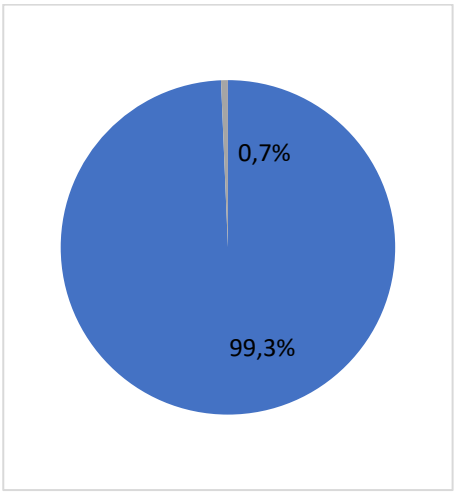
Etapa	Unidad	Total
Product A1-A3	kg CFC11 eq	4,729E-07
Core A4-A5	kg CFC11 eq	-6,181E-10
Use B1-B7	kg CFC11 eq	3,159E-09
Disposal C1-C4	kg CFC11 eq	1,220E-09

ACIDIFICACION



Etapa	Unidad	Total
Product A1-A3	mol H+ eq	7,706E-02
Core A4-A5	mol H+ eq	6,261E-02
Use B1-B7	mol H+ eq	1,295E-02
Disposal C1-C4	mol H+ eq	8,275E-04

WATER SCARCITY



Etapa	Unidad	Total
Product A1-A3	m^3	3,375E+01
Core A4-A5	m^3	-8,760E-04
Use B1-B7	m^3	2,232E-01
Disposal C1-C4	m^3	1,611E-03

USE OF RESOURCES

RESOURCES	Unit	Product A1-A3	Core A4-A5	Use B1-B7	Disposal C1-C4
Products					
Non-renewable energy	MJ	1,27E+02	5,80E-01	0,00E+00	0,00E+00
Renewable energy	MJ	2,22E+01	2,55E+01	0,00E+00	5,60E-01
Secondary renewable fuel	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Secondary non-renewable fuel	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Secondary materials	Kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Fresh water used	m^3	7,06E+01	2,70E-01	4,90E-01	1,88E-01

CATEGORIES OF WASTE AND OUTPUT FLOWS

RESOURCES	Unit	Product A1-A3	Core A4-A5	Use B1-B7	Disposal C1-C4
Products					
Hazardous waste	kg	0,00E+00	8,80E-03	0,00E+00	5,00E-04
Non-hazardous waste	kg	7,08E+01	2,80E-02	1,00E-03	0,00E+00
Radioactive waste	kBq	0,00E+00	0,00E+00	0,00E+00	0,00E+00