tecnaliacertified
CERTIFIED FURNITURE PRODUCTS

PRODUCT CERTIFICATE

APPLICANT:	**GRUPO FORMA 5, S.L.U.** C/ Acueducto, 12-14 Pol. Ind. Carretera de la Isla 41700 DOS HERMANAS (Sevilla) SPAIN
CERTIFICATE no:	0103241
SERIE:	**BUCS**
PRODUCT:	Metal, melamine and varnished pedestals.
REFERENCES INCLUDED IN THE SCOPE OF CERTIFICATION:	See annex.

MAIN CERTIFIED FEATURES:

	TEST PROCEDURE	SPECIFICATION
Pedestals	UNE-EN 14073-2:2005 UNE-EN 14073-3:2005 UNE-EN 14074:2005	UNE-EN 14073-2:2005 UNE-EN 14073-3:2005 UNE-EN 14074:2005
Materials	Technical guidelines set by TECNALIA and detailed in the technical sheet attached.	

CERTIFICATION SYSTEM:

- Initial inspection of manufacturer's production and control system.
- Initial test of type of product.
- Weekly observation, supervision and assessment of quality system.
- Weekly testing of raw materials using samples taken in the factory.
- Weekly testing of samples of finished products.

The tests referred to in this certificate were carried out at TECNALIA's laboratories, accredited by ENAC (The National Accreditation Office) as set out in the following regulation (among others): no. 4/LE024.

Date of entry into force:	25.02.2019
Date of last modification:	21.07.2023
Valid until:	24.07.2026

Serie no: 010324103-E

tecnalia certification

Firmado digitalmente por 15966973M CARLOS MANUEL NAZABAL (R: B20991220)

Carlos Nazabal Alsua
Manager

This certificate may be modified, temporarily suspended and withdrawn by TECNALIA R&I CERTIFICACION.
The validity of this certificate can be checked through consultation in www.tecnaliacertificacion.com

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ANNEX
PRODUCT CERTIFICATE nº: 0103241

Product specifications

A. Metal mobile pedestals (3 drawers or drawer+file drawer).
B. Melamine mobile pedestals (3 drawers or drawer+file drawer).
C. Varnished mobile pedestals (3 drawers or drawer+file drawer).

Width (mm):	A= 330/430. B= 330/430. C= 430.
Depth (mm)	A= 530. B= 530. C= 530.
Height (mm):	A= 590. B= 590. C= 590.
Materials:	Metals: – Frame: 0.8 - 1.2 mm thick cold laminated steel. – Drawer fronts: 0.8 mm thick cold laminated steel. – Thermoplastic drawers with seen guides. Melamines: – Frame: melamine board of 10 mm thick (back side) and 19 mm thick (top, laterals and drawers fronts). – Metal drawers with seen guides. – Edges 0.5 mm thick. – Aluminium handle. Varnisheds: – Frame: 19 mm thick melamine particle board and convered by a 0,5 mm thick wood sheet. – Fronts: 19 mm particle board 0,5 mm thick natural wood sheet – Wooden drawers with hidden slides sys.
Finishes:	– Particle boards. – Melamine particle board of low propierties (unicolor). – Steel panels. – Metal fitting: guides and handles. – Application of paint on metal. – Application of varnish / lacquer. – Bonding processes.

Forma 5

EPD Environmental Product Declaration

Program: PEDESTAL
REF: F4113
Dimensions: 80,4 x 54 x 54 cm

Pedestals are the ideal complement to operational and executive workstations. Their large plurality of types and configurations– mobile, support, with lateral access, 3 drawers + file drawer, etc. – in addition to a wide range of finishes in metal, melamine or wood frames, make it an element indispensable in furnishing an office.

RAW MATERIALS USED (PACKAGING INCLUDED)

	Kg of raw materials included in the product	% of raw materials included in the product
MELAMINE	5,45584	17,92%
PVC	0,567	1,86%
GLUE	0,020	0,07%
STEEL	20,996	68,97%
VARNISH (EPOXY/POLYESTER)	0,200	0,66%
POLYAMIDE	0,258	0,85%
POLYETHYLENE	0,002	0,01%
POLYPROPYLENE	0,282	0,93%
ALUMINIUM	0,05	0,16%
CARD BOARD	2,6095	8,57%
Total	**30,440**	**100%**

% Recycled Materials: 53,4%
% Recyclable Materials: 97,16%

This Program PEDESTAL Environmental Product Declaration have been calculated and drafted in accordance with ISO14025 Type III standard, and based on “PCR 2012-19, Furniture, except seats and mattresses” version 2.01.

PEDESTAL, life cycle information

FUNCIONAL UNIT

The functional unit consists of a 30,440Kg PEDESTAL assembly operating for a service life of 15 years.

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 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), producto 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 BRAND

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

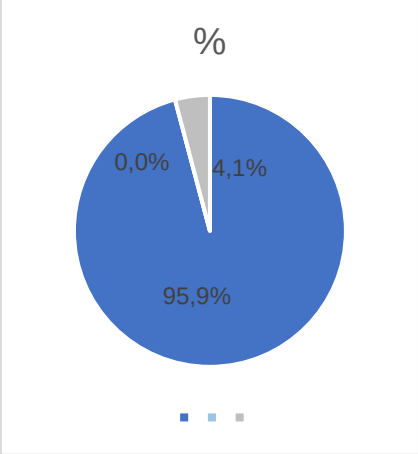
Report drafted by: Luis Carlos González Valencia.
Industrial technical engineer by University of Sevilla
Official College of Technical Engineers of Sevilla (COGITISE).
Membership number: 9129.

IMPACTS PER CATEGORIES

EPD 2018[1] Categories indicators	Unit	CORE Impact result	UPSTREAM Impact result	DOWNSTREAM Impact result	TOTAL
Abiotic depletion, elements	kg Sb eq	1,606E-09	5,240E-06	1,416E-11	5,242E-06
Acidification (fate not incl.)	kg SO2 eq	3,616E-02	7,440E-02	7,099E-03	1,177E-01
Photochemical oxidation	kg NMVOC	5,822E-02	6,226E-02	8,553E-03	1,290E-01
Eutrophication	kg PO4---eq	2,200E-03	9,256E-03	1,135E-03	1,259E-02
Climate Change (Carbon Footprint)	kg CO2 eq	-8,077E-01	2,760E+01	1,186E+00	2,798E+01
Abiotic depletion, fossil fuels	MJ	5,746E+02	3,011E+02	7,815E+01	9,538E+02
Ozone layer depletion (ODP) (optional)	kg CFC-11 eq	-3,514E-07	1,167E-06	8,553E-03	8,554E-03
Water scarcity	m3 eq	8,906E-01	1,100E+00	2,309E-01	2,221E+00

Table 1. Impacts per Categories in PEDESTAL family.

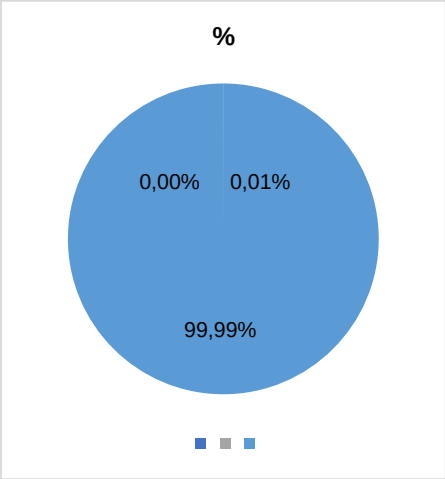
CLIMATE CHANGE (CARBON FOOTPRINT)



Etapa	Unidad	Total
Upstream	kg CO2 eq	2,76E+01
Core	kg CO2 eq	-8,08E-01
Downstream	kg CO2 eq	1,19E+00

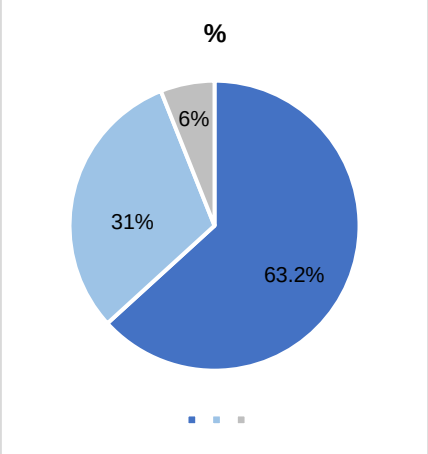
1 This method is the successor of EPD (2013) and is intended for the creation of Environmental Product Declarations (EPDs), as published on the website of the Swedish Environmental Management Council (SEMC). For more information see also General programmer instructions for the international EPD System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

OZONE LAYER DEPLETION



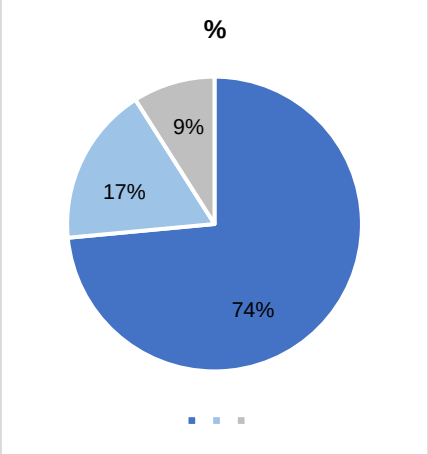
Etapa	Unidad	Total
Upstream	kg CFC-11 eq	1,167E-06
Core	kg CFC-11 eq	-3,514E-07
Downstream	kg CFC-11 eq	8,553E-03

ACIDIFICATION



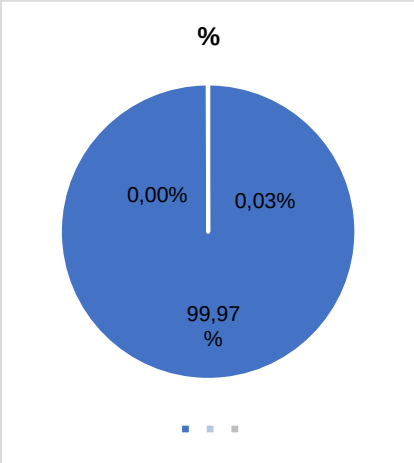
Etapa	Unidad	Total
Upstream	kg SO2 eq	7,440E-02
Core	kg SO2 eq	3,616E-02
Downstream	kg SO2 eq	7,099E-03

EUTROPHICATION



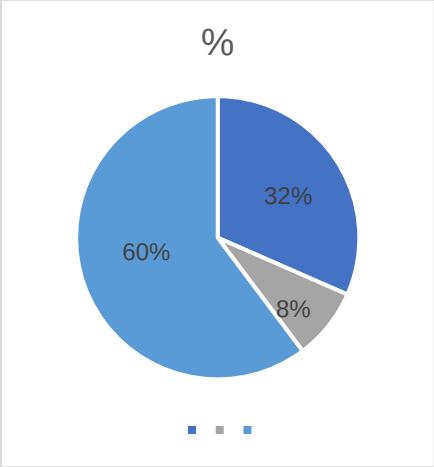
Etapa	Unidad	Total
Upstream	kg PO4--- eq	9,256E-03
Core	kg PO4--- eq	2,200E-03
Downstream	kg PO4--- eq	1,135E-03

ABIOTIC DEPLETION



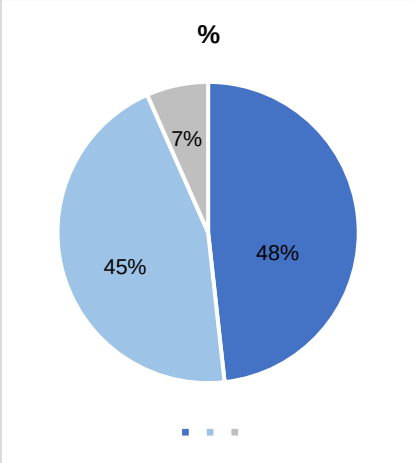
Etapa	Unidad	Total
Upstream	kg Sb eq	5,240E-06
Core	kg Sb eq	1,606E-09
Downstream	kg Sb eq	1,416E-11

ABIOTIC DEPLETION FOSSIL FUELS



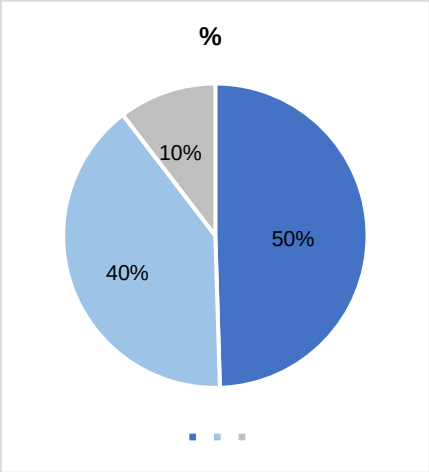
Etapa	Unidad	Total
Upstream	MJ	3,011E+02
Core	MJ	5,746E+02
Downstream	MJ	7,815E+01

PHOTOCHEMICAL OXIDATION



Etapa	Unidad	Total
Upstream	kg C2H4 eq	6,226E-02
Core	kg C2H4 eq	5,822E-02
Downstream	kg C2H4 eq	8,553E-03

WATER SCARCITY



Etapa	Unidad	Total
Upstream	kg 1,4DCB eq	1,100E+00
Core	kg 1,4DCB eq	8,906E-01
Downstream	kg 1,4DCB eq	2,309E-01

USE OF RESOURCES

RESOURCES	Unit	CORE	UPSTREAM	DOWNSTREAM
Products				
Energy non renewable	MJ	4,91E+06	2,19E+05	2,85E-01
Energy renewable	MJ	2,31E+06	5,97E+06	0,00E+00
Secondary fuel	MJ	8,07E+05	1,85E-03	3,86E+06
Secondary fuel renewable	MJ	1,85E-03	0,00E+00	0,00E+00
Materials	kg	9,48E+01	4,87E+05	3,87E+01
Fresh water used	m^3	4,61E+01	1,26E+06	1,81E-01

CATEGORIES OF WASTE AND OUTPUT FLOWS

RESOURCES	Unit	CORE	UPSTREAM	DOWNSTREAM
Products				
Hazardous waste	kg	5,63E-03	2,54E-01	3,30E-01
Non-hazardous waste	kg	8,22E-01	6,57E+00	6,80E-01
Radioactive waste	kg	2,72E-02	1,58E+00	1,33E-06