



PRODUCT ENVIRONMENTAL PROFILE

ARGENTA ROLLED STEEL

IP 66 Rolled steel wall-mounting cabinets - Opaque doors



Registration N°: IDEP-00001-V01.01-EN	Drafting rules: « PCR-ed4-EN-2021 09 06 » and « PSR-0005-ed3.1-FR-2023 12 08 »
Verifier accreditation N°: VH08	Information and reference documents: www.pep-ecopassport.org
Date of issue: 10-2024	Validity period: 5 years
Independent verification of the declaration and data, in compliance with ISO 14025:2006 Internal ☐ External ☒	
The PCR review was conducted by a panel of experts chaired by Julie ORGELET (DDEMAIN)	
PEP are compliant with XP C08-100-1:2016 and EN 50693:2019 or NF E38-500 :2022	
The components of the present PEP may not be compared with components from any other program.	
Document complies with ISO 14025:2006 « Environmental labels and declaration. Type III environmental declarations »	



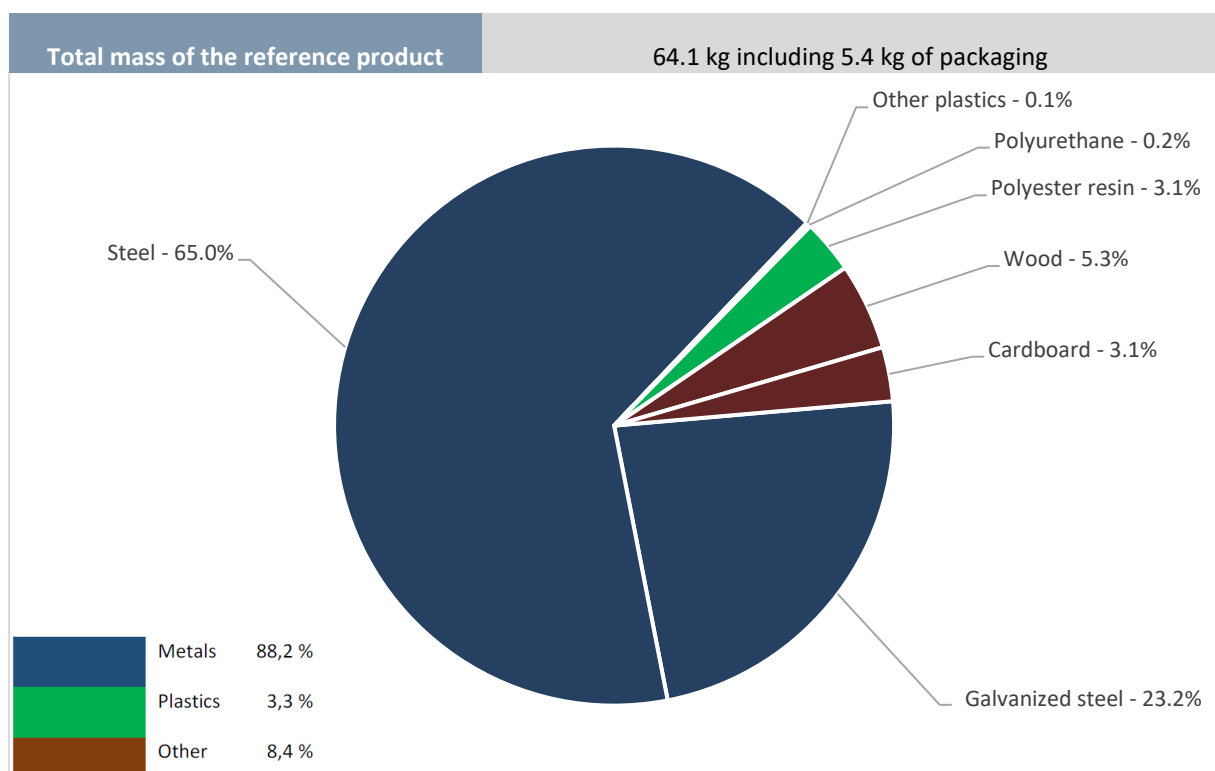
GENERAL INFORMATION

Reference product	Unequipped cabinet of cold-rolled steel, commercial reference: GN10010030				
Functional unit	Protect people from direct contact with live active parts and ensure the grouping of control, command and protection devices in a single enclosure or cabinet having the following 1000 x 1000 x 300 mm, with rated current In, while protecting them against mechanical impacts (IK 10) and the penetration of solid objects and liquids (IP 66), according to the appropriate use scenario, and for the reference service life of the product of 20 years. The declared unit corresponds to the functional unit				
Geographical representativity	Manufacturing in Spain; Distribution, installation, use and end of life in France.				
Time representativity	Data collections are representative of the period 2023.				
Reference service life	20 years				
Other products covered	GN252015/SP	GN503020/SP	GN605020/SP	GN806030/SP	GN1208040/SP
	GN252015	GN503020	GN605020	GN806030	GN1208040
	GN252515/SP	GN503025/SP	GN605025/SP	GN806040/SP	GN1209030/SP
	GN252515	GN503025	GN605025	GN806040	GN1209030
	GN302015/SP	GN504015/SP	GN605030/SP	GN808020/SP	GN12010030/SP
	GN302015	GN504015	GN605030	GN808020	GN12010030
	GN302515/SP	GN504020/SP	GN606020/SP	GN808025/SP	GN12012025/SP
	GN302515	GN504020	GN606020	GN808025	GN12012025
	GN302520/SP	GN504025/SP	GN606025/SP	GN808030/SP	GN1406030/SP
	GN302520	GN504025	GN606025	GN808030	GN1406030
	GN303015/SP	GN504030/SP	GN606030/SP	GN808040/SP	GN1406040/SP
	GN303015	GN504030	GN606030	GN808040	GN1406040
	GN303020/SP	GN505015/SP	GN606040/SP	GN8010030/SP	GN1408030/SP
	GN303020	GN505015	GN606040	GN8010030	GN1408030
	GN304015/SP	GN505020/SP	GN608025/SP	GN1006025/SP	GN1408040/SP
	GN304015	GN505020	GN608025	GN1006025	GN1408040
	GN304020/SP	GN505025/SP	GN608030/SP	GN1006030/SP	GN14010030/SP
	GN304020	GN505025	GN608030	GN1006030	GN14010030
	GN403015/SP	GN505030/SP	GN705015/SP	GN1006040/SP	GN14010040/SP
	GN403015	GN505030	GN705015	GN1006040	GN14010040
	GN403020/SP	GN507020/SP	GN705020/SP	GN1008025/SP	GN5010025/PD
	GN403020	GN507020	GN705020	GN1008025	GN5010030/PD
	GN404015/SP	GN508025/SP	GN705025/SP	GN1008030/SP	GN6012025/PD
	GN404015	GN508025	GN705025	GN1008030	GN6012030/PD
	GN404020/SP	GN508030/SP	GN705030/SP	GN1008040/SP	GN8010020/PD
	GN404020	GN508030	GN705030	GN1008040	GN8010030/PD
	GN404025/SP	GN604015/SP	GN804020/SP	GN10010030/SP	GN8010040/PD
	GN404025	GN604015	GN804020	GN10010030	GN8012030/PD
	GN406020/SP	GN604020/SP	GN804025/SP	GN1206025/SP	GN8012040/PD
	GN406020	GN604020	GN804025	GN1206025	GN10010030/PD
	GN406025/SP	GN604025/SP	GN804030/SP	GN1206030/SP	GN10010040/PD
	GN406025	GN604025	GN804030	GN1206030	GN10012030/PD
	GN406030/SP	GN604030/SP	GN806020/SP	GN1206040/SP	GN10012040/PD
	GN406030	GN604030	GN806020	GN1206040	GN12010030/PD
	GN503015/SP	GN605015/SP	GN806025/SP	GN1208030/SP	GN12010040/PD

GN503015	GN605015	GN806025	GN1208030	GN12012025/PD
GN14014030PD/SP	GNL605040	GN6012035PD/SP	GN10014030PD/SP	GN6010040PD/SP
GN5012025PD/SP	GNL606040	GN608025PD/SP	GN12012045PD/SP	GN14012030PD/SP
GN5012030PD/SP	GNL608040	GN608030PD/SP	GN12012050PD/SP	GN7012030PD/SP
GN6010030PD/SP	GNL6010040	GN12012030/PD	GN12012040/PD	GN14010030/PD
GN14010040/PD	GN14012040/PD	GN10014030/PD	GN12012045/PD	GN12012050/PD
GN14012030/PD	GN14014030/PD	GN5012025/PD	GN5012030/PD	GN6010030/PD
GN6010040/PD	GN6012035/PD	GN608025/PD	GN608030/PD	GN7012030/PD
GN5010025PD/SP	GN5010030PD/SP	GN6012025PD/SP	GN6012030PD/SP	GN8010020PD/SP
GN8010030PD/SP	GN8010040PD/SP	GN8012030PD/SP	GN8012040PD/SP	GN10010030PD/SP
GN10010040PD/SP	GN10012030PD/SP	GN10012040PD/SP	GN12010030PD/SP	GN12010040PD/SP
GN12012025PD/SP	GN12012030PD/SP	GN12012040PD/SP	GNL6012040	GN14010040PD/SP
GN14012040PD/SP				

These products have an identical function, are covered by the same product standards, and have identical manufacturing technology in terms of material type and manufacturing process. The differences between products in the range concern the quantities of materials made by IDE Electric. These products therefore form a homogeneous environmental product family as defined in PCR-ed4-FR-2021 09 06. The minimum product GN252015, the average product GN10010030, and the maximum product GN14012040/PD were used to define the extrapolation rules included in this document.

CONSTITUENT MATERIALS



Constituent materials	Metals		Plastics		Others	
	Steel	65.0%	Polyester resin	3.1%	Wood	5.3%
	Galvanized steel	23.2%	Polyamide 6	<0.1%	Cardboard	3.1%
			Polyethylene	<0.1%		
			Polyurethane	0.2%		
	Total	88.2%	Total	3.3%	Total	8.4%

LIFE CYCLE ASSESMENT METHODOLOGY

The environmental information of this PEP covers all the stages of the life cycle of the product “from cradle to grave.”

Manufacturing			Distribution	Installation	Use							End of life				Module D
Raw material extraction and processing	Transport the manufacturer	Manufacturing	Distribution to the place of operation	Installation in the place of operation	Use or application of the product installed	Maintenance	Repair	Replacement	Restoration	Energy requirements during the use stage	Water requirements during the use stage	Deinstallation	Transport to the waste treatment site	Treatment of waste in view of its reuse, recovery, and/or recycling	Disposal	Benefits and loads beyond the system boundaries
A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D

Manufacturing stage	The energy model used is Electricity Mix; Low voltage; 2020; Spain, ES
Distribution stage	The distribution of the packaged product from the last logistic platform to the installation place (France) was modelled by a 27t lorry transport truck over a distance of 3 500 km. The used packaging contains a 100% of recycled materials
Installation stage	The installation stage includes the disposal of the packaging and the transport of packaging material to disposal. For installation, only standard tools are needed. The energy model used is Electricity Mix; Low voltage; 2020; Europe, EU-27
Use stage	As the product does not consume energy nor need any maintenance during its use stage, there is no use stage for this product.
End of life stage	The end-of-life stage is modelled according to the PCR-ed4-FR-2021 09 06. The energy model used is Electricity Mix; Low voltage; 2020; Europe, EU-27

ENVIRONMENTAL IMPACTS OF THE FUNCTIONAL UNIT

The contribution analysis of elementary flows in environmental indicators is based on calculations from the life cycle analysis software EIME v6.2. The indicators set used is « Indicators for PEF EF 3.1 (compliance: PEP ed.4, EN15804+A2) v2.0 » developed by the CODDE department of Bureau Veritas according to the annex A of the PCR-ed4-FR-2021 09 06.

As the functional unit is the same than the declared unit, the impacts are identical for both units.

ENVIRONMENTAL IMPACTS OF THE REFERENCE PRODUCT GN10010030 AT THE SCALE OF THE FUNCTIONAL UNIT AND DECLARED UNIT

MANDATORY INDICATORS								
Impacts indicators	Unit	Manufacturing	Distribution	Installation	Use	End-of-life	TOTAL (Off D)	Benefits and loads
		A1-A3	A4	A5	B1-B7	C1-C4		D
Climate change - total	kg CO2 eq	3,62E+02	1,44E+01	1,01E+01	0,00E+00	1,24E+02	5,11E+02	-1,62E+02
Climate change – fossil fuels	kg CO2 eq	3,73E+02	1,44E+01	6,19E+00	0,00E+00	1,24E+02	5,17E+02	-1,57E+02
Climate change - biogenics	kg CO2 eq	-1,03E+01	0,00E+00	3,96E+00	0,00E+00	0,00E+00	-6,34E+00	-5,10E+00
Climate change – land use and land use transformation	kg CO2 eq	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Ozone depletion	kg CFC-11 eq	1,12E-06	2,21E-08	3,54E-08	0,00E+00	5,87E-07	1,76E-06	2,42E-07
Acidification	mol H+ eq	1,07E+00	9,13E-02	8,36E-03	0,00E+00	4,49E-01	1,62E+00	-3,53E-01
Freshwater eutrophication	kg (PO4) ³⁻ eq	6,60E-04	5,41E-06	5,04E-05	0,00E+00	2,06E-05	7,36E-04	-3,97E-05
Marine aquatic eutrophication	kg N eq	1,97E-01	4,28E-02	3,72E-03	0,00E+00	9,01E-02	3,34E-01	-6,29E-02
Terrestrial eutrophication	mol N eq	2,16E+00	4,69E-01	2,67E-02	0,00E+00	9,82E-01	3,64E+00	-6,90E-01
Photochemical ozone formation	kg COVNM eq	7,90E-01	1,18E-01	7,42E-03	0,00E+00	3,42E-01	1,26E+00	-2,81E-01



Product environmental profile

Abiotic resource depletion – elements or resource depletion – metals and minerals	kg Sb eq	1,00E-03	5,68E-07	7,05E-08	0,00E+00	-3,12E-04	6,93E-04	-4,89E-06
Abiotic resources depletion – fossil fuels or resource depletion - fossils	MJ	2,25E+04	2,01E+02	2,62E+01	0,00E+00	9,54E+03	3,22E+04	-8,92E+03
Water requirement	m3 eq	5,47E-02	2,08E-01	0,00E+00	5,06E+01	1,46E+02	-3,62E+01	9,50E+01

Inventory flows	Unit	Manufacturing	Distribution	Installation	Use	End-of-life	TOTAL (Off D)	Benefits and loads
		A1-A3	A4	A5	B1-B7	C1-C4		D
Use of renewable primary energy, excluding renewable primary energy resources used as raw materials	MJ	9,56E+01	2,68E-01	6,58E+00	0,00E+00	-1,80E-01	1,02E+02	7,05E+01
Use of renewable primary energy resources used as raw materials	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Total use of renewable primary energy resources	MJ	9,56E+01	2,68E-01	6,58E+00	0,00E+00	-1,80E-01	1,02E+02	7,05E+01
Use of non-renewable primary energy, excluding non-renewable primary energy resources used as raw materials	MJ	2,24E+04	2,01E+02	2,62E+01	0,00E+00	9,54E+03	3,22E+04	-8,92E+03
Use of non-renewable primary energy resources used as raw materials	MJ	5,66E+01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	5,66E+01	0,00E+00
Total use of non-renewable primary energy resources	MJ	2,25E+04	2,01E+02	2,62E+01	0,00E+00	9,54E+03	3,22E+04	-8,92E+03
Use of secondary materials	kg	6,01E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	6,01E+00	0,00E+00
Use of renewable secondary fuels	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Use of non-renewable secondary fuels	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Net use of fresh water	m³	2,21E+00	1,27E-03	4,84E-03	0,00E+00	1,18E+00	3,40E+00	-8,43E-01
Hazardous waste disposed of	kg	1,37E+00	0,00E+00	6,02E-02	0,00E+00	5,34E+01	5,48E+01	4,10E-02
Non-hazardous waste disposed of	kg	4,62E+01	5,06E-01	3,13E+00	0,00E+00	1,47E+01	3,52E+01	1,05E+01



Product environmental profile

Radioactive waste disposed of	kg	3,60E-03	3,60E-04	1,99E-04	0,00E+00	3,38E-03	7,54E-03	5,96E-04
Components for reuse	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Materials for recycling	kg	2,11E+01	0,00E+00	2,41E-01	0,00E+00	4,53E+01	6,66E+01	0,00E+00
Materials for energy recovery	kg	2,70E-03	0,00E+00	0,00E+00	0,00E+00	4,13E-02	4,40E-02	0,00E+00
Exported energy	MJ	4,31E-01	0,00E+00	1,84E+00	0,00E+00	0,00E+00	2,27E+00	0,00E+00
Biogenic carbon content of the product	kg de C	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Biogenic carbon content of the associated packaging	kg de C	2,20E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,20E+00	0,00E+00

OPTIONAL INDICATORS								
Impact indicators	Unit	Manufacturing	Distribution	Installation	Use	End-of-life	TOTAL (Off D)	Benefits and loads
		A1-A3	A4	A5	B1-B7	C1-C4		D
Total use of primary energy during the life cycle	MJ	2,25E+04	2,01E+02	3,28E+01	0,00E+00	9,54E+03	3,23E+04	-8,85E+03
Emission of fine particles, expressed in incidence of diseases	death/Kg eq PM2.5	5,74E-06	7,42E-07	4,92E-08	0,00E+00	2,30E-06	8,83E-06	-1,67E-06
Ionizing radiation, human health	kBq U235 eq	1,15E+01	3,51E-02	3,71E-01	0,00E+00	1,26E+00	1,32E+01	7,18E-02
Ecotoxicity (fresh water)	CTUe	1,25E+03	9,44E+00	3,34E+01	0,00E+00	6,92E+01	1,36E+03	-5,19E+01
Human toxicity, carcinogenic effects	CTUh	1,37E-07	2,53E-10	2,67E-07	0,00E+00	1,36E-08	4,18E-07	-1,14E-08
Human toxicity, non-carcinogenic effects	CTUh	2,63E-06	4,90E-09	7,78E-09	0,00E+00	1,15E-06	3,79E-06	-1,15E-06
Impacts related to land use/soil quality	No dimension	3,27E-01	0,00E+00	6,48E-03	0,00E+00	0,00E+00	3,34E-01	0,00E+00

EXTRAPOLATION RULES

In a PEP sheet valid for a range of products, a weighting factor of the environmental indicators is applied for all the references of a same range of products. The extrapolation coefficients are given for the environmental impacts at the scale of the product and the functional unit. For each lifecycle stage, the environmental impacts of the considered product are calculated by multiplying the impacts of the reference product by the extrapolation coefficients. To obtain the total, the environmental impacts of each lifecycle stage must be added. the PSR-0005-ed3.1-FR-2023 12 08, no extrapolation rules are available which means that they must be generated if we want to cover an entire homogeneous family.

To do so, the extrapolations rules were calculated based on the environmental impact assessment results of three products: the minimum product GN252015, the average product GN10010030, and the maximum product GN14012040/PD.

For each stage of the life cycle adapted to each impact indicator, extrapolation coefficients were generated and compiled in the table below.

The extrapolation coefficients are based on two types of functions:

- Second degree polynomial function, $f(X) = a \cdot X^2 + b \cdot X + c$,
- Linear function, $f(X) = a \cdot X + b$.

For each stage, the extrapolation rules have been calculated thanks to different parameters that are reported in the following table:

Life cycle stage	X parameter
Manufacturing	Mass packed product in kg
Distribution	Mass packed product in kg
Installation	Mass packaging kg
Use	NA
End of life	Mass product in kg
Benefits and loads beyond the life cycle	Mass packed product in kg

Table 1- X parameter of the extrapolation rules

The impact of the use phase is zero because the electrical cabinet consumes nothing during its lifespan.



Product environmental profile

As the functional unit is the same than the declared unit, the extrapolation coefficients are identical for both units.

When the coefficient c is not listed in the following table, it means that the extrapolation rule follows the linear function.

Life cycle stages / Impact indicators	Manufacturing			Distribution			Installation			End-of-life			Benefits and loads beyond the life cycle		
	a	b	c	a	b	c	a	b	c	a	b	c	a	b	c
GWP	-2,19E-02	7,05E+00	1,06E-01	7,53E-18	2,24E-01	0,00E+00	6,70E-02	1,51E+00	8,22E-03	1,54E-04	2,09E+00	4,83E-01	-9,17E-04	-2,48E+00	6,84E-01
GWP-b	2,52E-04	-1,79E-01	1,33E-01	0,00E+00	0,00E+00	0,00E+00	6,29E-02	3,89E-01	1,61E-02	0,00E+00	0,00E+00	0,00E+00	-4,79E-04	-4,95E-02	5,12E-02
GWP-f	-2,21E-02	7,23E+00	-2,67E-02	7,53E-18	2,24E-01	0,00E+00	4,07E-03	1,12E+00	-7,91E-03	1,54E-04	2,09E+00	4,83E-01	-4,38E-04	-2,43E+00	6,32E-01
GWP-lu	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
ODP	-4,62E-12	1,63E-08	8,97E-08	1,40E-26	3,45E-10	0,00E+00	-9,33E-10	1,17E-08	-3,92E-10	1,31E-13	9,98E-09	1,04E-10	9,03E-12	3,23E-09	-2,81E-09
AP	3,37E-05	1,41E-02	2,46E-02	1,89E-06	1,30E-03	4,64E-04	-1,68E-04	2,46E-03	-3,34E-05	6,16E-05	3,84E-03	1,10E-02	-4,76E-05	-2,29E-03	-9,96E-03
EP-fw	-7,07E-09	9,63E-06	7,09E-05	0,00E+00	8,43E-08	0,00E+00	-7,84E-07	1,36E-05	-2,82E-07	5,64E-10	2,56E-07	3,60E-06	-2,00E-09	-4,91E-07	2,17E-08
EP-m	-1,11E-05	3,79E-03	6,02E-05	5,88E-20	6,67E-04	1,14E-17	-8,89E-05	1,18E-03	-3,82E-05	-8,31E-10	1,54E-03	-3,00E-04	-2,57E-07	-9,68E-04	2,45E-04
EP-t	-1,22E-04	4,15E-02	4,40E-03	2,35E-19	7,32E-03	0,00E+00	-5,58E-04	8,00E-03	-2,35E-04	3,64E-08	1,68E-02	-2,96E-03	-2,22E-06	-1,07E-02	2,73E-03
POCP	-4,67E-05	1,53E-02	-1,31E-03	-1,76E-19	1,85E-03	-4,58E-17	-1,02E-04	1,93E-03	-4,67E-05	-8,77E-09	5,84E-03	-1,28E-03	-6,98E-07	-4,36E-03	1,12E-03
ADP-e	-3,06E-08	1,82E-05	-3,51E-05	4,49E-25	8,85E-09	0,00E+00	-1,66E-09	2,21E-08	-6,04E-10	2,66E-11	-5,35E-06	1,59E-06	-2,37E-11	-7,50E-08	2,04E-08
ADP-f	-1,50E+00	4,49E+02	-1,79E+02	0,00E+00	3,14E+00	0,00E+00	-7,22E-01	8,81E+00	-2,83E-01	-7,45E-04	1,63E+02	-4,75E+01	-1,69E-02	-1,39E+02	3,65E+01
WDP	-6,89E-03	1,94E+00	-9,65E-01	-8,82E-20	8,53E-04	-2,29E-17	-5,09E-03	6,63E-02	-2,14E-03	1,00E-05	8,64E-01	-1,63E-01	-1,81E-04	-5,55E-01	1,38E-01
PM	-3,19E-10	1,09E-07	5,80E-08	1,35E-24	1,16E-08	3,49E-22	-1,22E-09	1,58E-08	-4,78E-10	1,08E-14	3,93E-08	-8,11E-09	-8,12E-12	-2,57E-08	6,76E-09
IRP	-1,09E-04	1,09E-01	4,98E+00	-2,94E-20	5,47E-04	-1,14E-17	-1,20E-02	1,34E-01	-3,60E-03	2,05E-07	2,14E-02	9,68E-05	-1,02E-05	1,79E-03	-1,29E-03
ETP-fw	-8,78E-03	4,24E+00	1,01E+03	0,00E+00	1,47E-01	0,00E+00	-1,09E+00	1,22E+01	-4,60E-01	1,57E-05	1,18E+00	-1,26E-01	-1,43E-03	-7,19E-01	7,00E-02
HTP-c	-2,03E-12	2,03E-09	1,51E-08	0,00E+00	3,95E-12	0,00E+00	-9,00E-09	9,88E-08	-3,85E-09	1,15E-16	2,32E-10	-5,64E-11	-3,98E-14	-1,77E-10	4,49E-11
HTP-nc	-1,73E-10	5,22E-08	-5,72E-09	3,51E-27	7,64E-11	0,00E+00	-2,25E-10	2,67E-09	-9,38E-11	-8,56E-14	1,97E-08	-5,47E-09	-2,44E-12	-1,79E-08	4,60E-09
SQP	-3,26E-06	3,45E-03	1,19E-01	0,00E+00	0,00E+00	0,00E+00	-2,18E-04	2,40E-03	-9,35E-05	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PERE	-1,43E-03	1,19E+00	2,50E+01	2,35E-19	4,18E-03	0,00E+00	-3,43E-02	1,40E+00	-1,97E-02	1,36E-06	-3,32E-03	1,04E-02	5,61E-03	7,51E-01	-7,15E-01
PERM	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PERT	-1,43E-03	1,19E+00	2,50E+01	2,35E-19	4,18E-03	0,00E+00	-3,43E-02	1,40E+00	-1,97E-02	1,36E-06	-3,32E-03	1,04E-02	5,61E-03	7,51E-01	-7,15E-01
PENRE	-1,50E+00	4,48E+02	-1,82E+02	0,00E+00	3,14E+00	0,00E+00	-7,22E-01	8,81E+00	-2,83E-01	-7,45E-04	1,63E+02	-4,75E+01	-1,69E-02	-1,39E+02	3,65E+01
PENRM	-5,16E-04	8,67E-01	3,12E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PENRT	-1,50E+00	4,49E+02	-1,79E+02	0,00E+00	3,14E+00	0,00E+00	-7,22E-01	8,81E+00	-2,83E-01	-7,45E-04	1,63E+02	-4,75E+01	-1,69E-02	-1,39E+02	3,65E+01
PET	-1,50E+00	4,50E+02	-1,54E+02	-3,61E-16	3,14E+00	-9,37E-14	-7,56E-01	1,02E+01	-3,03E-01	-7,44E-04	1,63E+02	-4,74E+01	-1,13E-02	-1,38E+02	3,58E+01
SM	-1,25E-04	1,03E-01	-7,09E-02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
RSF	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
NRSF	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
FW	-1,60E-04	4,51E-02	-2,24E-02	1,84E-21	1,99E-05	3,57E-19	-1,18E-04	1,54E-03	-4,98E-05	2,34E-07	2,01E-02	-3,79E-03	-4,20E-06	-1,29E-02	3,21E-03



Product environmental profile

HWD	-8,53E-06	1,94E-02	1,55E-01	0,00E+00	0,00E+00	0,00E+00	-1,97E-03	2,19E-02	-8,25E-04	4,90E-07	9,09E-01	2,85E-02	-2,93E-06	8,34E-04	-4,26E-04
NHWD	-3,32E-04	7,18E-01	1,52E+00	-1,65E-18	7,89E-03	-3,66E-16	2,05E-02	4,67E-01	5,70E-03	7,43E-05	-2,64E-01	5,53E-01	-2,23E-03	3,10E-01	-2,13E-01
RWD	-1,27E-08	5,26E-05	2,80E-04	2,30E-22	5,62E-06	0,00E+00	-2,46E-06	5,03E-05	-9,85E-07	2,12E-09	5,74E-05	8,18E-07	-1,09E-07	1,65E-05	-1,15E-05
CRU	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
MFR	-3,58E-03	5,65E-01	-4,32E-01	0,00E+00	0,00E+00	0,00E+00	4,72E-03	1,82E-02	4,02E-03	-3,83E-06	7,75E-01	-2,30E-01	0,00E+00	0,00E+00	0,00E+00
MER	3,34E-09	-6,00E-07	2,72E-03	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	5,02E-05	-7,82E-03	3,27E-01	0,00E+00	0,00E+00	0,00E+00
EE	7,55E-06	6,25E-03	-8,05E-04	0,00E+00	0,00E+00	0,00E+00	3,64E-02	1,40E-01	1,02E-02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00

ADDITIONAL ENVIRONMENTAL INFORMATION

The products included in this PEP comply with Directive 2011/65/UE (RoHS 2) including all amendments through to Directive 2015/863/UE (RoHS 3) of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

The products included in this PEP do not contain Substances of Very High Concern (SVHC) included in the latest candidate list published and updated by ECHA of 17 January 2022.

The manufacturing plant in Zuera, Spain is ISO 14001 certified.

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