

# Product Environmental Profile

## PRISMA P CUBICLE 1000A





## General information

### Representative product

PRISMA P CUBICLE 1000A - The product used for the analysis is the typical Prisma P Cubicles 1000A product, which is comprised of the following commercial references: 03482, 03690, 03802, 03803, 04486, 04926, 03412, 03612, 04424, 04426, 03420, 03243, 03802, 04404, 03401, 03204, 04014, 04239, 03203, 04004, 4504, 04651, 04922, 08403, 08407, 08506, 08513, 08538, 08433, 08438, 08733, 08738, 08750, 08773, 08794, 04657, 04502, 08493, 08497

### Description of the product

The main functions of Prisma P cubicle 1000A is :

- Mounting plates and front plates
- Distribution blocks, busbars...
- Other switchboards on site, connections, terminal blocks, cable tie supports etc

The product used for the analysis is a Prisma P 1000A Cubicle, a few items that can be attached include :

- For incoming :
  - 1000A fixed circuit breaker (typically Compact NS)
- For outgoing :
  - 250A horizontal circuit breakers (typically Compact NSX)
  - 250A vertical circuit breakers (typically Compact NSX)
  - modular circuit breakers (typically 3 rows of Acti 9 devices)

### Functional unit

The combined functions of this product are :

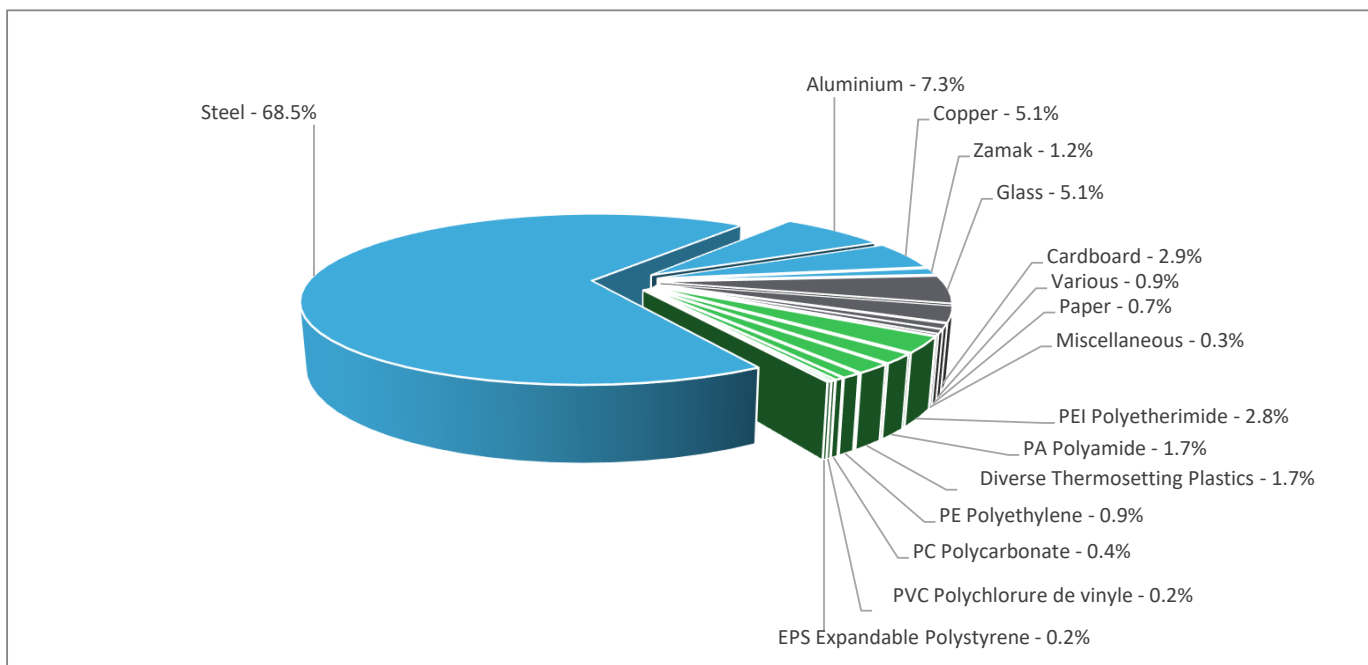
- Protect persons during 20 years against direct contact with live parts and allow grouping monitoring, control and protection devices in a single enclosure or a cabinet having the following dimensions 2000 x 700 x 500 (mm), while protecting against mechanical impacts (IK=10) and the penetration of solid objects and liquids (IP=55).
- The distributing electricity is up to 1000W and for 1000V, within the enclosure.



## Constituent materials

### Reference product mass

190300 g including the product, its packaging and additional elements and accessories



Plastics	7.9%
Metals	82.1%
Others	9.9%



## Substance assessment

Products of this range are designed in conformity with the requirements of the RoHS directive (European Directive 2011/65/EU of 2 January 2013, amended in March 2015, 2015/863/EU and in November 2017, 2017/2102/EU) and do not contain, or only contain in the authorised proportions, lead, mercury, cadmium, hexavalent chromium or flame retardants (polybrominated biphenyls - PBB, polybrominated diphenyl ethers – PBDE), Bis (2-ethylhexyl)phthalate - DEHP, Benzyl butyl phthalate– BBP, Dibutyl phthalate - DBP, Diisobutyl phthalate - DIBP) as mentioned in the Directive.

Details of ROHS and REACH substances information are available on the Schneider-Electric Green Premium website

<http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page>



## Additional environmental information

The PRISMA P CUBICLE 1000A presents the following relevant environmental aspects

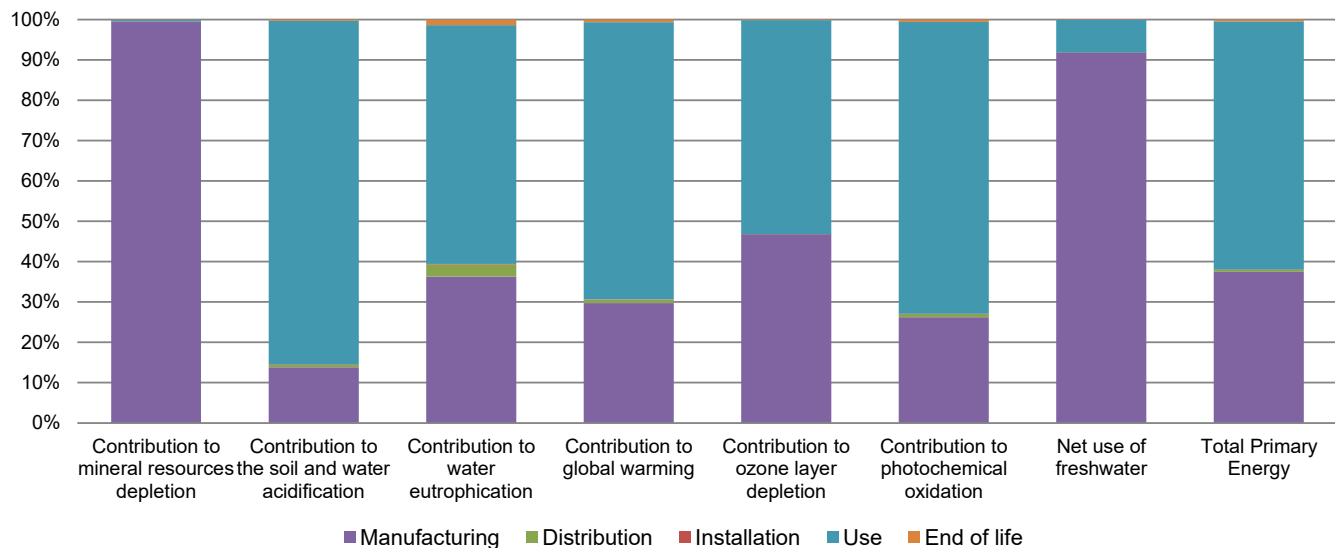
<b>Manufacturing</b>	Manufactured at a Schneider Electric production site ISO14001 certified
<b>Distribution</b>	Weight and volume of the packaging optimized, based on the European Union's packaging directive Packaging weight is 9234.8 g, consisting of Carboard (76%), PELD (14%), paper (5%), PET (4%), PSE (1%) Packaging recycled materials is 78% of total packaging mass. Product distribution optimised by setting up local distribution centres
<b>Installation</b>	No Special components included
<b>Use</b>	The product does not require special maintenance operations.
<b>End of life</b>	End of life optimized to decrease the amount of waste and allow recovery of the product components and materials  This product contains the Prisma Plus system P range is made of several products which can contain printed circuit boards. The switchboards configuration can be different depending on the customer's needs. Some sub-assemblies that should be separated from the stream of waste so as to optimize end-of-life treatment.  The location of these components and other recommendations are given in the End of Life Instruction document which is available on the Schneider-Electric Green Premium website <a href="http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page">http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page</a>  Recyclability potential: <b>80%</b> Based on "ECO'DEEE recyclability and recoverability calculation method" (version V1, 20 Sep. 2008 presented to the French Agency for Environment and Energy Management: ADEME).



## Environmental impacts

<b>Reference life time</b>	20 years			
<b>Product category</b>	Other equipments - Passive product - continuous operation			
<b>Installation elements</b>	The disposal of the packaging materials are accounted for during the installation phase (including transport to disposal).			
<b>Use scenario</b>	load rate / rated current (In): 30 % of 3520 Amps percentage of utilization time: 100%			
<b>Geographical representativeness</b>	Europe			
<b>Technological representativeness</b>	The Modules of Technologies such as material production, manufacturing process and transport technology used in this PEP analysis (LCA-EIME in this case) are Similar and representative of the actual type of technologies used to make the product in production.			
<b>Energy model used</b>	<b>Manufacturing</b>	<b>Installation</b>	<b>Use</b>	<b>End of life</b>
	Energy model used: France	Electricity Mix; AC; consumption mix, at consumer; < 1kV; EU-27	Electricity Mix; AC; consumption mix, at consumer; < 1kV; EU-27	Electricity Mix; AC; consumption mix, at consumer; < 1kV; EU-27

Compulsory indicators		PRISMA P CUBICLE 1000A					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	2.12E-02	2.11E-02	0*	0*	8.35E-05	0*
Contribution to the soil and water acidification	kg SO <sub>2</sub> eq	1.63E+01	2.25E+00	1.12E-01	2.46E-03	1.39E+01	5.05E-02
Contribution to water eutrophication	kg PO <sub>4</sub> <sup>3-</sup> eq	8.78E-01	3.19E-01	2.58E-02	1.27E-03	5.20E-01	1.23E-02
Contribution to global warming	kg CO <sub>2</sub> eq	2.67E+03	7.94E+02	2.46E+01	6.05E-01	1.83E+03	1.82E+01
Contribution to ozone layer depletion	kg CFC11 eq	8.40E-04	3.93E-04	0*	0*	4.46E-04	1.08E-06
Contribution to photochemical oxidation	kg C <sub>2</sub> H <sub>4</sub> eq	9.07E-01	2.38E-01	8.00E-03	1.86E-04	6.56E-01	5.42E-03
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m <sup>3</sup>	5.88E+01	5.40E+01	0*	0*	4.78E+00	2.05E-02
Total Primary Energy	MJ	6.04E+04	2.26E+04	3.47E+02	8.44E+00	3.72E+04	2.80E+02



Optional indicators		PRISMA P CUBICLE 1000A					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	2.94E+04	9.94E+03	3.45E+02	8.17E+00	1.89E+04	2.30E+02
Contribution to air pollution	m <sup>3</sup>	2.32E+05	1.51E+05	1.04E+03	3.98E+01	7.87E+04	1.79E+03
Contribution to water pollution	m <sup>3</sup>	1.37E+05	5.44E+04	4.04E+03	8.46E+01	7.70E+04	1.96E+03
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	6.25E+01	6.25E+01	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	2.91E+03	2.51E+02	4.63E-01	0*	2.66E+03	0*
Total use of non-renewable primary energy resources	MJ	5.75E+04	2.24E+04	3.47E+02	8.38E+00	3.45E+04	2.80E+02
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	2.89E+03	2.35E+02	4.63E-01	0*	2.66E+03	0*
Use of renewable primary energy resources used as raw material	MJ	1.63E+01	1.63E+01	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	5.70E+04	2.19E+04	3.47E+02	8.38E+00	3.45E+04	2.80E+02
Use of non renewable primary energy resources used as raw material	MJ	4.67E+02	4.67E+02	0*	0*	0*	0*
Use of non renewable secondary fuels	MJ	0.00E+00	0*	0*	0*	0*	0*
Use of renewable secondary fuels	MJ	0.00E+00	0*	0*	0*	0*	0*
Waste categories	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Hazardous waste disposed	kg	1.95E+03	1.74E+03	0*	0*	0*	2.09E+02
Non hazardous waste disposed	kg	7.18E+03	3.14E+02	8.72E-01	1.90E+00	6.86E+03	7.77E-01
Radioactive waste disposed	kg	5.80E+00	2.04E-01	6.21E-04	0*	5.59E+00	1.20E-03

Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	1.63E+02	1.68E+01	0*	7.54E+00	0*	1.39E+02
Components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	6.55E-01	0*	0*	0*	0*	6.55E-01
Exported Energy	MJ	2.15E-02	2.02E-03	0*	1.95E-02	0*	0*

\* represents less than 0.01% of the total life cycle of the reference flow

Life cycle assessment performed with EIME version EIME v5.8.1, database version 2018-11 in compliance with ISO14044.

The use phase is the life cycle phase which has the greatest impact on the majority of environmental indicators (based on compulsory indicators).

Please note that the values given above are only valid within the context specified and cannot be used directly to draw up the environmental assessment of an installation.

Registration number :	SCHN-00550-V01.01-EN	Drafting rules	PCR-ed3-EN-2015 04 02
Verifier accreditation N°	VH25	Supplemented by	PSR-0005-ed2-EN-2016 03 29
Date of issue	10/2020	Information and reference documents	<a href="http://www.pep-ecopassport.org">www.pep-ecopassport.org</a>
		Validity period	5 years
Independent verification of the declaration and data, in compliance with ISO 14025 : 2010			
Internal		External	X
The PCR review was conducted by a panel of experts chaired by Philippe Osset (SOLINNEN)			
PEP are compliant with XP C08-100-1 :2016			
The elements of the present PEP cannot be compared with elements from another program.			
Document in compliance with ISO 14025 : 2010 « Environmental labels and declarations. Type III environmental declarations »			



Schneider Electric Industries SAS  
 ROSELYNE THAI  
 roselyne.thai@schneider-electric.com  
 35, rue Joseph Monier  
 CS 30323  
 F- 92506 Rueil Malmaison Cedex  
 RCS Nanterre 954 503 439  
 Capital social 896 313 776 €

[www.schneider-electric.com](http://www.schneider-electric.com)

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