

## Product Environmental Profile Solius Eco Domo

### 1. General information

**- Designation :**

This PEP was made from the following reference product:  
Solius Eco Domo 1000 Watts reference 510910

**- Product category:**

Direct, visible, fixed electric heating appliances

Type Radiant panel

**- Functionnal Unit:**

Ensure heating and maintenance at 19°C of the temperature of one square metre of habitable living space or similar (for a volume of 2.5m<sup>3</sup>), for a typical lifespan of 15 years.

This PEP is valid for the products range Solius Eco Domo  
designated by the following references:  
510 903 - 510 905 - 510 907 - 510 912 - 510 915 - 510 920 - 610 910 - 610 915 - 610 920



### 2. Materials and substances

**- Total weight of reference flow:** 7,416 kg (product and its packaging included)

Plastics		Metals		Other	
polyamide 6	4,7%	Metals and semi-metals	78,7%	Paper and cardboards	12,4%
epoxy resin	0,8%			Inorganic chemicals	1,0%
polyvinylchloride resin	0,7%			Glass and ceramics	0,7%
polyester resin	0,5%			Other materials	<0,1%
Other plastics	0,5%				
<b>Total</b>	<b>7,1%</b>	<b>Total</b>	<b>78,7%</b>	<b>Total</b>	<b>14,1%</b>

### 3. Additional environmental information

In phase of:	Through its environmental statement, the Atlantic Group undertakes:
<b>Manufacturing</b>	<p><b>In it undertaking N°1 : Conduct constant research to further our product offering in terms of comfort, safety and energy performance with particular focus on solutions using renewable energies:</b></p> <ul style="list-style-type: none"> <li>- Innovate by combining the various types of energies to minimize greenhouse gas emissions and energy consumption</li> <li>- Refrain from using hazardous substances in appliances</li> </ul> <p><b>In it undertaking N°4 : Reduce the energy consumption and greenhouse gases produced by our activities:</b></p> <ul style="list-style-type: none"> <li>- Conduct environmental diagnostics and carbon balances on the industrial sites of the group &gt;&gt; La Roche sur Yon</li> </ul> <p><b>In it undertaking N°5 : Respect water resources by reducing the quantities of water consumed and by improving the quality of our discharges:</b></p> <ul style="list-style-type: none"> <li>- Continuously search for production techniques that reduce water consumption</li> </ul> <p><b>In it undertaking N°6 : Control the waste produced by our activities:</b></p> <ul style="list-style-type: none"> <li>- Sort and recover production waste by each type of material</li> </ul>
<b>Distribution</b>	<p><b>In it undertaking N°7 : Increase the use of recyclable packaging:</b></p> <ul style="list-style-type: none"> <li>- Consider environmental impacts when choosing concept and packaging material</li> </ul>
<b>Use</b>	<p>Solius Eco Domo incorporates energy saving functions, described in Part 5. Eco Solutions</p> <ul style="list-style-type: none"> <li>- Noise level: Not applicable</li> <li>- Electromagnetic emissions: Not applicable</li> </ul>
<b>End of life</b>	<p><b>In it undertaking N°6 : Control the waste produced by our activities:</b></p> <ul style="list-style-type: none"> <li>- The ECO-SYSTEMES organization in mainland France collects and recovers our end-of-life products</li> <li>- Through its adhesion to the ECO-SYSTEMES organization, the Atlantic Group answers to the legal and regulatory obligations for financing the collection, removal and treatment of waste electrical and electronic equipment.</li> </ul>

### 4. Environmental impacts

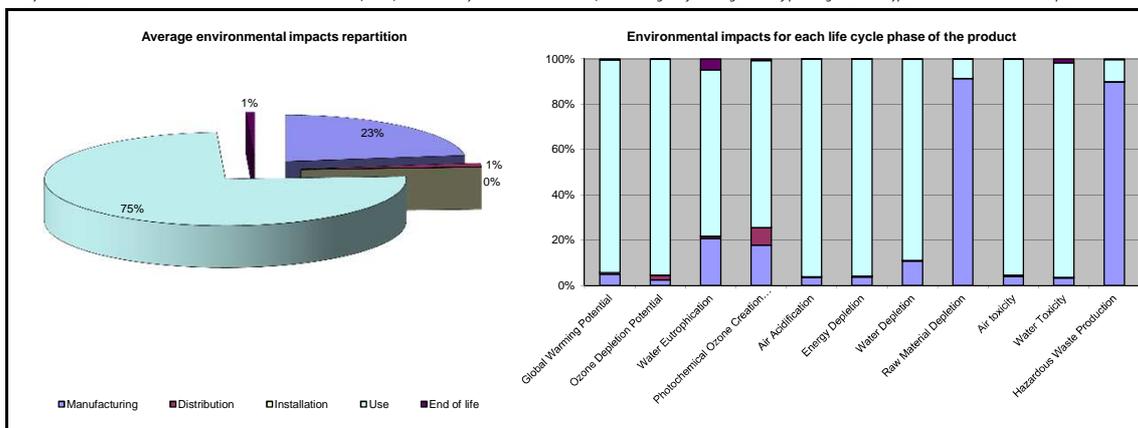
The environmental impacts calculations results from the life cycle analysis of Solius Eco Domo in France, for a duration of use of 15 years, with these next steps:

<b>Manufacturing</b>	The upstream transport of materials and composants to the manufacturing place., The manufacturing of the product.
<b>Distribution</b>	The transport of final product, packaging included, to the implementation place, whether an average distance of 3500 km.
<b>Installation</b>	<p>Solius Eco Domo integrates items which are required for the installation:</p> <p>Only the packaging treatment is here considered</p> <p>And the recyclability of the packaging.</p>
<b>Use</b>	<p>Solius Eco Domo integrates items which are required for the maintenance:</p> <p>No maintenance operation is considered</p> <p>The potential energy savings functions are specified in paragraph 5. Eco Solutions of this PEP</p>
<b>End of life</b>	The waste downstream transport to the recycling place, valorization or incineration, The collection, recycling (75% of the weight's product), waste valorization (5%), landfill (10%) or incineration (10%).

Impact indicator	Unit	Sum	Manufacturing	Distribution	Installation	Use	End of life
<b>Common base of environmental impact indicators</b>							
Global warming potential	g eq CO <sub>2</sub>	6,53E+05	3,23E+04	4,61E+03	4,84E+01	6,14E+05	2,49E+03
Ozone depletion potential	g eq CFC-11	1,47E-01	3,45E-03	3,26E-03	2,79E-05	1,40E-01	2,39E-04
Water eutrophication	g eq PO <sub>4</sub> <sup>3-</sup>	7,94E+00	1,65E+00	7,66E-02	1,78E-03	5,84E+00	3,82E-01
Photochemical ozone creation potential	g eq C <sub>2</sub> H <sub>4</sub>	5,14E+01	9,11E+00	4,00E+00	3,60E-02	3,79E+01	3,54E-01
Air acidification	g eq H <sup>+</sup>	1,38E+02	4,61E+00	5,87E-01	5,27E-03	1,33E+02	8,87E-02
<b>Elementary flows</b>							
Energy depletion	MJ	1,30E+04	4,79E+02	5,82E+01	5,11E-01	1,24E+04	8,82E+00
Water depletion	dm <sup>3</sup>	1,80E+03	1,93E+02	5,52E+00	8,64E-02	1,60E+03	1,71E+00
<b>Optional environmental impact indicators</b>							
Raw material depletion	years-1	9,66E-14	8,83E-14	7,93E-17	5,13E-19	8,28E-15	1,12E-17
Air toxicity	m <sup>3</sup>	1,61E+08	6,34E+06	8,67E+05	7,83E+03	1,54E+08	1,40E+05
Water toxicity	m <sup>3</sup>	2,88E+02	9,47E+00	6,31E-01	7,56E-03	2,73E+02	4,87E+00
Hazardous waste production	kg	1,09E+00	9,80E-01	1,71E-03	8,96E-04	1,05E-01	3,73E-03

Study conducted with EIME version 5.0 and its data base version 07/2012, distributed by Bureau Veritas CODDE, considering the following model of power generation type

Europe



#### - Environmental impacts extrapolation:

A weighting coefficient of environmental impact could be apply to all of these references

Weight (kg) / weight (kg) of the reference product

The environmental impact of a product covered by this PEP, other than the reference product for which it was established, can be calculated by multiplying the values by the environmental indicators (s) factor (s) corresponding (s) - out of USE phase

References	Packaged weight (kg)	Transformation coefficient
510910	7,416	1,00
510 903 & 510 905	6,116	0,82
510907	6,756	0,91
510912	8,916	1,20
510915	9,676	1,30
510920	11,816	1,59
610910	9,006	1,21
610915	11,136	1,50

#### 5. Eco solutions

Solius Eco Domo, it is also eco solutions who can permit to save energy during the use phase.

Système embarqué de détection d'absence certifié

Variation Temporelle certifiée entre 0,29 et 0

Système embarqué de détection d'ouverture et de fermeture de fenêtre certifié

Indicateur embarqué de consommation

Rayonnant

Fonction de programmation

Registration N°:	SCGA-2012-003-V1-EN	Applicable PCR:	PEP-PCR-ed 2-FR-2011 12 09
Verifier accreditation N°:	VH09	Program information:	www.pep-ecopassport.org
Date of publication:	15/10/2012	Period of validity:	4 years
Independent verification of the declaration and data, according to ISO 14025: 2006			
Internal <input checked="" type="checkbox"/>		External <input type="checkbox"/>	
In compliance with ISO 14025 – 2006 standard type III environmental declarations			
PCR review was conducted by an expert panel chaired by Jacques Chevalier (CSTB)			
The elements of the actual PEP cannot be compared with elements from another program			



www.pep-ecopassport.org

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Registration N°

SCGA-2012-003-V1-EN