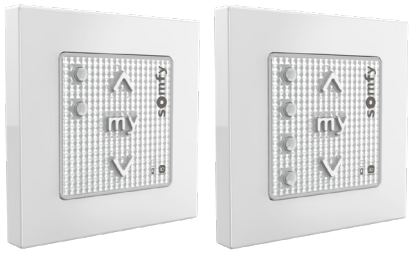
50, avenue du Nouveau Monde
74300 Cluses
Tel. 04 50 96 83 79

Product Environmental Profile

Smoove 2 io, Smoove 4 io

Reference product



> Reference product

Smoove 4 io 15L

Ref 1800205

> Functional unit

To control blinds equipped with an io-homecontrol® motor during a lifetime of 10 years.

> References covered

Smoove 2 io, ref 1800204
Smoove 4 io 15L, ref 1800205
Smoove 4 io, ref 1800207
Smoove 4 io 12L, ref 1800539
Smoove 4 io IN, ref 1800206

Materials and substances

All useful measures have been adopted to ensure that the materials used in the composition of the product do not contain any substances banned by the legislation in force at the time of marketing. The second battery needed for the life of the product has been taken into account in this bill of materials.

Plastics			Metals			Other		
	g	%		g	%		g	%
ABS	16,4	14,9%	Steel plate	2,55	2,3	Glass fiber	6,26	5,7%
PC	11,9	10,8%	Copper	0,73	0,7	Thionyl chloride	3,82	3,5%
PA6.6	4,24	3,9%	Other	1,86	1,7	Other	1,39	1,3%
Epoxy resin	1,46	1,3%						
Other	1,41	1,3%						
						Packaging		
						Paper	40	36,4
						Cardboard	18	16,4
Total mass of reference product: 110,0 g								
Estimated recyclable content: 53,1 %								

> Energy mode

European mix.

> Chemical substances

The products covered by this PEP comply with REACH regulation and RoHS directive.

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Manufacturing

> The devices covered in this PEP are manufactured in a production that have adopted environmental management approach.

> Energy model
Tunisian Mix

Distribution

Paper is 100% recycled fibers and cardboard is 80% recycled fibers. Packaging is continuously improved by reducing the amount and using a maximum of recycled material.

Installation

> Installation elements
Screws required for installation are included with the product, so they are modeled in the Manufacturing section.

> Installation processes
There is no installation process due to the screws provided.

> Energy model
No

Use

> This active product of Categorie 2 is autonome.
> Energy model of the usage phase: None
> Consumables and maintenance: 1 LiMnO2 battery

End of life

> Typical transport conditions
Considering the complexity and the lack of knowledge of the electric and electronic recycling channel and processes all around the world, we considered:
- 1000 km of transport
- Landfilling treatment of the product
- Waste treatment by pyrometallurgy for batteries.

> Energy model
European mix.

> Batteries can be recycled
Please place them into the correct collection channel.

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Environmental impacts

Evaluation of the environmental impact covers the following life cycle stages: manufacturing, distribution, installation, usage and end of life.
All calculations are done with EIME software version EIME© v5.8.1

Indicators	Global	Unit	Manufacturing	Distribution	Installation	Usage	End of Life
Acidification potential of soil and water	2,82E-03	kg SO2 eq	1,83E-03	8,93E-04	2,91E-05	3,91E-05	2,38E-05
Abiotic depletion (elements, ultimate reserves)	7,60E-05	kg antimony eq	7,59E-05	1,14E-09	3,54E-10	3,10E-08	4,26E-10
Abiotic depletion (fossil fuels)	7,02E+00	MJ	6,20E+00	4,00E-01	6,24E-02	2,53E-01	1,04E-01
Air pollution	1,03E+02	m^3	9,22E+01	4,32E+00	1,15E+00	3,72E+00	1,24E+00
Eutrophication	5,59E-04	kg(PO4)3-eq	3,57E-04	8,80E-05	7,88E-05	1,07E-05	2,45E-05
Global Warming	8,69E-01	kg CO_2 eq	7,41E-01	3,15E-02	6,26E-02	2,36E-02	1,03E-02
Ozone layer depletion	9,68E-08	CFC-11 eq	8,15E-08	5,40E-11	1,88E-10	1,39E-08	1,19E-09
Photochemical oxidation	2,49E-04	kg C2H4 eq	1,84E-04	4,43E-05	1,46E-05	3,69E-06	3,18E-06
Water pollution	1,65E+02	m^3	1,52E+02	4,69E+00	1,99E+00	3,70E+00	2,81E+00
Total Primary Energy	1,29E+01	MJ	1,13E+01	4,03E-01	6,95E-02	1,00E+00	1,41E-01
Total use of renewable primary energy resources	1,45E+00	MJ	1,45E+00	5,14E-04	1,36E-03	2,39E-04	1,48E-03
Total use of non-renewable primary energy resources	1,15E+01	MJ	9,85E+00	4,02E-01	6,81E-02	1,00E+00	1,40E-01
Use of renewable primary energy excluding renewable primary energy used as raw material	1,40E+00	MJ	1,39E+00	5,14E-04	1,36E-03	2,39E-04	1,48E-03
Use of renewable primary energy resources used as raw material	5,40E-02	MJ	5,40E-02	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Use of non renewable primary energy excluding non renewable primary energy used as raw material	1,01E+01	MJ	8,50E+00	4,02E-01	6,81E-02	9,94E-01	1,40E-01
Use of non renewable primary energy resources used as raw material	1,35E+00	MJ	1,34E+00	0,00E+00	0,00E+00	7,31E-03	0,00E+00
Use of non renewable secondary fuels	0,00E+00	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Use of renewable secondary fuels	0,00E+00	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Use of secondary material	6,15E-02	kg	6,15E-02	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Net use of freshwater	8,63E-03	m^3	7,99E-03	2,43E-06	1,26E-05	6,06E-04	1,89E-05
Hazardous waste disposed	2,33E-01	kg	1,82E-01	0,00E+00	4,05E-05	4,54E-02	5,41E-03
Non hazardous waste disposed	4,31E-01	kg	3,16E-01	9,70E-04	6,35E-02	1,95E-03	4,86E-02
Radioactive waste disposed	1,31E-04	kg	1,16E-04	6,74E-07	1,61E-06	1,04E-05	2,36E-06
Components for reuse	0,00E+00	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Materials for recycling	0,00E+00	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Materials for energy recovery	0,00E+00	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Exported Energy	2,52E-02	MJ	2,29E-03	0,00E+00	2,29E-02	0,00E+00	0,00E+00

> These environmental impacts are only applicable to the reference product mentioned on page 1.

Registration number : SOMF-00037-V01.01-EN	Applicable PCR: PCR-ed3-EN-2015 04 02 Supplemented by PSR0005-ed2-FR-2016 03 29
Accreditation number: VH18	Programme information: **www.pep-ecopassport.org**
Edition date: 09-2019	Period of validity: 5 years
Independent verification of the declaration and data, according to ISO 14025 : 2010 Internal ❒ External ☒ LCIE Bureau Veritas	
Document in compliance with ISO 14025:2010: Environmental labels and declarations. Type III environmental declarations.	
PCR review was conducted by a panel of experts chaired by Philippe Osset (SOLINNEN)	
The elements of the present PEP cannot be compared with elements from another programme.	
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