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

Product Environmental Profile

Smoove RS100 io

Reference product



> Reference product

Smoove RS100 1 io Pure Shine + frame

Ref	1811321

> Functional unit

To control roller shutters equipped with the S&SO-RS100 io motor during a lifetime of 10 years.

> References covered

Smoove RS100 1 io Pure Shine, ref 1811315
Smoove RS100 1 io Black Shine, ref 1811316
Smoove RS100 1 io Silver Shine, ref 1811317
Smoove RS100 1 IN io Pure Shine, ref 1811318
Smoove RS100 1 IN io Black Shine, ref 1811319
Smoove RS100 1 IN io Silver Shine, ref 1811320
Smoove RS100 1 io Pure Shine + frame, ref 1811321
Smoove RS100 1 Industrial io Pure Shine, ref 1811322
Smoove RS100 1 Industrial io Pure Shine + frame, ref 1811323

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.

Plastics			Metals			Other		
	g	%		g	%		g	%
ABS	18,6	20,9	**Steel**	4,6	5,2	**Thionyl chloride**	6,8	7,8
PC	9,8	11,0	**Copper**	1,1	1,2	**Glass fiber**	2,8	3,2
Epoxy resin	1,9	2,1	**Nickel**	1,0	1,2	**Other**	2,6	3,0
Other	1,0	1,2	**Other**	1,3	1,5	**Packaging**		
						Carboard	25,2	29,0
						Paper	10,0	11,5
						PE-LD film	2,0	2,3
Total mass od reference product: 88,9 g								
Estimated recyclable content: 48,8 %								

> RoHS

All our products comply, on voluntary basis, with the restrictions on substances specified in the RoHS directive.

> REACH

At the date of PEP release, the product doesn't contain, as far as we knew, any substance of the candidate list to authorization of the REACH regulation with a concentration above 0,1% w/w.

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Manufacturing

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

Distribution

Paper is 100% recycled fibers and cardboard is at least 50% recycled fibers. Packaging is continuously improved by reducing the amount and using a maximumof recycled material.

Installation

> Installation processes

The processes to install the product are not considered in this study because of their weak impact compared to the other life cycles steps.

> Installation elements (non delivered with the product)

Elements non delivered with the product and needed to install the product are not considered too.

Use

With 8 actions per day, this product needs 23mA during active mode which is 0.02% of the time and 0,005mA during standby mode which is 99,98% of the time.

> This active product of Categorie 2 is autonome.

> Energy model of the usage phase: None

> Consumables and maintenance: 3 batteries CR2430

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 hydrometallurgy for batteries.

> The recycling potential of the product, out of packaging is: 42,3%. This calculation is done with EIME version 5.3.0.10.

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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 5.3.0.10.

Indicators	Global	Unit	Manufacturing	Distribution	Installation	Usage	End of Life
Air Acidification	1,94E-01	g H+ eq	1,39E-01	2,43E-02	8,37E-04	2,65E-02	2,58E-03
Air Toxicity	2,43E+05	m^3	1,75E+05	3,17E+04	1,45E+03	3,10E+04	3,64E+03
Energy Depletion	1,55E+01	MJ	1,21E+01	3,36E-01	6,89E-02	2,74E+00	2,84E-01
Global Warming Potential	7,72E+02	g CO_2 eq	6,46E+02	2,64E+01	3,27E+01	5,05E+01	1,65E+01
Hazardous Waste Production	2,55E-02	kg	2,44E-02	2,71E-08	1,43E-07	9,87E-04	1,26E-04
Ozone Depletion Potential	9,31E-05	g CFC-11	6,63E-05	4,22E-08	1,07E-07	2,54E-05	1,19E-06
Photochemical Ozone Creation Potential	3,24E-01	g C_2H_4 eq	2,44E-01	8,37E-03	6,77E-03	5,93E-02	5,33E-03
Raw Material Depletion	7,91E-15	Y-1	7,74E-15	4,87E-19	1,17E-19	1,72E-16	5,12E-19
Water Depletion	6,01E+00	dm^3	4,35E+00	2,38E-03	1,07E-02	1,61E+00	4,58E-02
Water Eutrophisation	1,39E-01	g PO_4^{3-}	7,62E-02	4,47E-05	4,10E-03	5,56E-02	3,05E-03
Water Toxicity	6,51E+00	m^3	2,32E-01	1,02E-02	8,41E-03	1,25E-02	6,25E+00

> Extrapolation rule

There is no extrapolation rule for additional products covered by this PEP. The reference product is the product with the largest impacts, all products combined.

Registration number : SOMF-2014-004-V1-EN	Applicable PCR: PEP-PCR-ed 2.1-EN-2012 12 11 Supplemented by PSR: PSR0005-ed1-EN-2012 12 11
Accreditation number: VH15	Programme information: **www.pep-ecopassport.org**
Edition date: 11-2014	Period of validity: 4 years
Independant verification of the declaration and data, according to ISO 14025:2006 Internal ❒ External ☒ Bureau Veritas CODDE	
In compliance with ISO 14025:2006 Type III environmental declarations	
PCR review was conducted by a panel of experts chaired by J. Chevalier (CSTB)	
The elements of the present PEP cannot be compared with elements from another programme	
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