



A leading player in the housing industry for over 50 years, SOMFY is working to reduce its carbon emissions by 50% by 2030 and like so helps its customers and partners in their environmental approach.

Our actions to reduce our carbon footprint:

OFFER ECO-DESIGNED* PRODUCTS WITH A REDUCED ENVIRONMENTAL IMPACT THROUGHOUT THEIR LIFE CYCLE

OFFER SOLUTIONS THAT IMPROVE THE ENERGY EFFICIENCY OF BUILDINGS AND THUS LIMIT CO2 EMISSIONS.

[1]. Somfy's eco-design approach, identified by the ACT FOR GREEN label, aims to reduce the environmental impact of products throughout their life cycle, from the extraction of raw materials to the end of their life, by placing requirements above current regulations.



— Reference product



> Reference product SITUO II RTS

Réf. 1870402

> Functional unit

To control blinds equipped with a RTS motor during a lifetime of 10 years.

>References covered

1870402	1870418	1870434	1870537	1870579	1870937
1870403	1870419	1870435	1870539	1870622	1870938
1870405	1870421	1870437	1870571	1870623	1871022
1870406	1870422	1870438	1870572	1870643	1871207
1870407	1870423	1870495	1870575	1870644	
1870409	1870425	1870496	1870576	1870936	

— 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			Metal			Others		
	% masse	% rec		% masse	% rec		% masse	% rec
ABS	49,2%	0%	Steel Plate	1,2%	43%	Glass Fibre	6,8%	0%
Epoxy resin	4,5%	0%	Zinc	0,8%	0%	SOCl	1,8%	0%
PE-HD	2,6%	0%	Copper	0,7%	0%	TBBPA	0,6%	0%
PE-LD	0,5%	0%	Bronze	0,5%	0%	Other	0,6%	0%
Polyamide 66	0,1%	0%	Tin	0,2%	0%	Total	9,9%	
Other	0,3%	0%	Other	0,4%	0%	Packaging		
Total	57,2%		Total	3,8%		Cardboard	16,2%	50%
						Paper	10,3%	100%
						Wood	2,5%	0%
						Total	29,1%	
Total mass of refence flow :			73,8 g					
Estimation of recyclable content:			58,08 %					

> CHEMICAL SUBSTANCES

The product covered by this PEP comply with REACH regulation and RoHS directive 2011/65/EU, 2015/863 et 201/2102.

— Representativeness

> Data has been collected in March 2024 by our design team, then treated and analyzed in September 2024.

> Data are related to the location of the production and assembly.

> Data matches with previous technology and commercial references only.



— Manufacturing —

The devices covered in this PEP are manufactured in Tunisia, in a production that has adopted an environmental management approach.

> Energy model

Tunisian mix low Voltage ; 2020



— Distribution —

> Packaging is continuously improved by reducing the amount and using a maximum of recycled materials

> The unit pack has been modeled here. It is made up of:

- 100% recycled fiber paper instructions
- cardboard with a minimum of 50% recycled fibers



— Installation —

> Installation elements

There is no element included in this phase.

> Installation processes

There is no installation process

> Energy model

Not applicable

> Packaging End of Life

Landfill for paper and cardboard



— Use —

This product is an autonomous product from category 2 (active product). It's powered by a battery and needs 2 batteries to cover all its life cycle of 10 years.

> Energy model of the use phase: None

> Consumables and maintenance : 2 batteries CR2032 (the first is sold with the product, the other is not)



— End of life —

> Typical transport conditions

Considering the complexity of the electric and electronic recycling channel and our lack of knowledge about the end-of-life processes implemented all around the world, we considered:

- 100 km of transport.
- A waste pretreatment of electrical and electronic equipment, including dismantling and material separation
- A waste incineration of electrical and electronic equipment.
- Loading rate of the truck going to the waste disposal center of 85%.



— Environmental impacts —

Evaluation of the environmental impact covers the following life cycle stages: manufacturing, distribution, installation, use and end of life.
All calculations are done with EIME software version EIME© v5.9.3 and CODDE 2022-01, on functional unit.

Indicators	Units	Total	Manufacturing	Distribution	Installation	Use	End of life	Module D
Climate change	kg CO2 eq.	9,05E-01	8,17E-01	7,73E-03	3,68E-02	2,25E-02	2,10E-02	3,78E-02
Climate change - biogenic	kg CO2 eq.	1,72E-02	-1,27E-02	0,00E+00	2,98E-02	0,00E+00	2,63E-05	7,42E-03
Climate change - fossil	kg CO2 eq.	8,88E-01	8,30E-01	7,73E-03	7,02E-03	2,25E-02	2,10E-02	3,04E-02
Climate change - land use and land use change	kg CO2 eq.	7,18E-10	7,18E-10	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Ozone depletion	kg CFC-11 eq.	8,74E-08	7,94E-08	1,16E-11	2,51E-10	6,91E-09	8,85E-10	3,40E-09
Acidification	mol H+ eq.	6,30E-03	5,78E-03	7,80E-05	4,31E-05	2,78E-04	1,28E-04	1,76E-04
Eutrophication, freshwater	kg P eq.	2,03E-06	1,90E-06	2,87E-09	5,43E-09	8,59E-08	4,49E-08	2,54E-07
Eutrophication, marine	kg N eq.	9,19E-04	8,29E-04	2,83E-05	1,08E-05	1,81E-05	3,36E-05	3,54E-05
Eutrophication, terrestrial	mol N eq.	1,00E-02	8,91E-03	3,10E-04	1,41E-04	2,03E-04	4,37E-04	3,47E-04
Photochemical ozone formation, human health	kg NMVOC eq.	3,10E-03	2,81E-03	7,87E-05	3,03E-05	9,25E-05	9,27E-05	1,06E-04
Resource use, minerals and metals	kg SB eq.	2,17E-04	2,17E-04	3,01E-10	5,07E-10	2,10E-08	1,37E-09	5,09E-09
Resource use, fossils	MJ	1,59E+01	1,47E+01	1,07E-01	1,29E-01	7,28E-01	3,05E-01	4,72E-01
Water use	m3 eq.	4,46E-01	4,26E-01	2,89E-05	2,93E-04	1,85E-02	9,01E-04	2,52E-02
Particulate matter	Disease occurrence	3,58E-08	3,25E-08	5,33E-10	3,01E-10	1,57E-09	8,72E-10	9,64E-10
Ionising radiation, human health	kBq U235 eq.	1,13E+01	1,09E+01	1,85E-05	2,83E-03	4,38E-01	6,30E-03	2,58E-03
Ecotoxicity, freshwater	CTUe	7,44E+00	6,08E+00	5,01E-03	1,71E-01	5,00E-01	6,87E-01	2,43E-01
Human toxicity, cancer	CTUh	6,84E-09	2,36E-09	1,33E-13	1,24E-12	3,33E-09	1,15E-09	1,73E-07
Human toxicity, non-cancer	CTUh	2,95E-08	2,78E-08	2,62E-12	5,18E-11	1,32E-09	3,47E-10	1,23E-10
Land use	No dimension	1,39E-02	1,34E-02	0,00E+00	1,32E-04	0,00E+00	3,00E-04	0,00E+00
Renewable primary energy used as energy	MJ	6,01E-01	5,70E-01	1,42E-04	9,49E-03	1,25E-04	2,09E-02	1,91E-01
Renewable primary energy used as raw material	MJ	1,75E-01	1,75E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Total renewable primary energy	MJ	7,76E-01	7,45E-01	1,42E-04	9,49E-03	1,25E-04	2,09E-02	1,91E-01
Non renewable primary energy used as energy	MJ	1,41E+01	1,28E+01	1,07E-01	1,29E-01	7,23E-01	3,05E-01	4,72E-01
Non renewable primary energy used as raw material	MJ	1,84E+00	1,83E+00	0,00E+00	0,00E+00	5,27E-03	0,00E+00	0,00E+00
Total non renewable primary energy	MJ	1,59E+01	1,47E+01	1,07E-01	1,29E-01	7,28E-01	3,05E-01	4,72E-01
Total Primary Energy	MJ	1,67E+01	1,54E+01	1,07E-01	1,39E-01	7,28E-01	3,26E-01	6,62E-01
Use of secondary material	kg	1,72E-02	1,72E-02	0,00E+00	0,00E+00	0,00E+00	0,00E+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 freshwater	m3	1,04E-02	9,93E-03	6,72E-07	1,15E-05	4,30E-04	3,03E-05	5,87E-04
Hazardous waste disposed	kg	3,97E+00	3,91E+00	0,00E+00	7,30E-03	3,50E-02	1,80E-02	7,92E-03
Non hazardous waste disposed	kg	3,52E-01	3,47E-01	2,67E-04	1,00E-03	1,21E-03	2,47E-03	1,61E-01
Radioactive waste disposed	kg	2,07E-04	1,98E-04	1,90E-07	4,15E-07	7,01E-06	9,88E-07	9,65E-06
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	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Materials for energy recovery	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Exported Energy	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00

Product Environmental Profile

Wireless remote control SITUO io II



> Here are the impacts of the B module.

Indicators	Units	Use	B1	B2	B3	B4	B5	B6	B7
Climate change	kg CO2 eq.	2,25E-02	0,00E+00	0,00E+00	0,00E+00	2,25E-02	0,00E+00	0,00E+00	0,00E+00
Climate change - biogenic	kg CO2 eq.	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Climate change - fossil	kg CO2 eq.	2,25E-02	0,00E+00	0,00E+00	0,00E+00	2,25E-02	0,00E+00	0,00E+00	0,00E+00
Climate change - land use and land use change	kg CO2 eq.	0,00E+00	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.	6,91E-09	0,00E+00	0,00E+00	0,00E+00	6,91E-09	0,00E+00	0,00E+00	0,00E+00
Acidification	mol H+ eq.	2,78E-04	0,00E+00	0,00E+00	0,00E+00	2,78E-04	0,00E+00	0,00E+00	0,00E+00
Eutrophication, freshwater	kg P eq.	8,59E-08	0,00E+00	0,00E+00	0,00E+00	8,59E-08	0,00E+00	0,00E+00	0,00E+00
Eutrophication, marine	kg N eq.	1,81E-05	0,00E+00	0,00E+00	0,00E+00	1,81E-05	0,00E+00	0,00E+00	0,00E+00
Eutrophication, terrestrial	mol N eq.	2,03E-04	0,00E+00	0,00E+00	0,00E+00	2,03E-04	0,00E+00	0,00E+00	0,00E+00
Photochemical ozone formation, human health	kg NMVOC eq.	9,25E-05	0,00E+00	0,00E+00	0,00E+00	9,25E-05	0,00E+00	0,00E+00	0,00E+00
Resource use, minerals and metals	kg SB eq.	2,10E-08	0,00E+00	0,00E+00	0,00E+00	2,10E-08	0,00E+00	0,00E+00	0,00E+00
Resource use, fossils	MJ	7,28E-01	0,00E+00	0,00E+00	0,00E+00	7,28E-01	0,00E+00	0,00E+00	0,00E+00
Water use	m3 eq.	1,85E-02	0,00E+00	0,00E+00	0,00E+00	1,85E-02	0,00E+00	0,00E+00	0,00E+00
Particulate matter	Disease occurrence	1,57E-09	0,00E+00	0,00E+00	0,00E+00	1,57E-09	0,00E+00	0,00E+00	0,00E+00
Ionising radiation, human health	kBq U235 eq.	4,38E-01	0,00E+00	0,00E+00	0,00E+00	4,38E-01	0,00E+00	0,00E+00	0,00E+00
Ecotoxicity, freshwater	CTUe	5,00E-01	0,00E+00	0,00E+00	0,00E+00	5,00E-01	0,00E+00	0,00E+00	0,00E+00
Human toxicity, cancer	CTUh	3,33E-09	0,00E+00	0,00E+00	0,00E+00	3,33E-09	0,00E+00	0,00E+00	0,00E+00
Human toxicity, non-cancer	CTUh	1,32E-09	0,00E+00	0,00E+00	0,00E+00	1,32E-09	0,00E+00	0,00E+00	0,00E+00
Land use	No dimension	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Renewable primary energy used as energy	MJ	1,25E-04	0,00E+00	0,00E+00	0,00E+00	1,25E-04	0,00E+00	0,00E+00	0,00E+00
Renewable primary energy used as raw material	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Total renewable primary energy	MJ	1,25E-04	0,00E+00	0,00E+00	0,00E+00	1,25E-04	0,00E+00	0,00E+00	0,00E+00
Non renewable primary energy used as energy	MJ	7,23E-01	0,00E+00	0,00E+00	0,00E+00	7,23E-01	0,00E+00	0,00E+00	0,00E+00
Non renewable primary energy used as raw material	MJ	5,27E-03	0,00E+00	0,00E+00	0,00E+00	5,27E-03	0,00E+00	0,00E+00	0,00E+00
Total non renewable primary energy	MJ	7,28E-01	0,00E+00	0,00E+00	0,00E+00	7,28E-01	0,00E+00	0,00E+00	0,00E+00
Total Primary Energy	MJ	7,28E-01	0,00E+00	0,00E+00	0,00E+00	7,28E-01	0,00E+00	0,00E+00	0,00E+00
Use of secondary material	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+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	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	0,00E+00
Net use of freshwater	m3	4,30E-04	0,00E+00	0,00E+00	0,00E+00	4,30E-04	0,00E+00	0,00E+00	0,00E+00
Hazardous waste disposed	kg	3,50E-02	0,00E+00	0,00E+00	0,00E+00	3,50E-02	0,00E+00	0,00E+00	0,00E+00
Non hazardous waste disposed	kg	1,21E-03	0,00E+00	0,00E+00	0,00E+00	1,21E-03	0,00E+00	0,00E+00	0,00E+00
Radioactive waste disposed	kg	7,01E-06	0,00E+00	0,00E+00	0,00E+00	7,01E-06	0,00E+00	0,00E+00	0,00E+00
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	0,00E+00
Materials for recycling	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Materials for energy recovery	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Exported Energy	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00

> **Biogenic carbon content** : 0,01 kg of C. biogenic for the packaging and 0 kg of C. biogenic for the product.

50, avenue du Nouveau Monde 74300 Cluses Tél. 04 50 96 83 79	Product Environmental Profile Wireless remote control SITUO io II	
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> Those impacts are applicable to all the references on page 1.

> **Extrapolation rule**

Not applicable, because the reference product is the worst case.

Registration number: SOMF-00194-V01.01-EN	Drafting Rules: PCR-ed4-EN-2021 09 06 Supplemented by : PSR-0005-ed3.1-EN-2023 12 08
Accreditation number: VH50	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)	
PEPs are compliant with EN 50693:2019	
The components of the present PEP may not be compared with components from any other program	
Document in compliance with ISO ISO 14025:2006 “Environmental labels and declarations. Type III environmental déclarations. »	
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