

Reference product



> Reference product

Sunis WireFree™ II io

Ref **1818285**

> Functional unit

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

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	36,0	9,6%	Zinc	15,8	4,2%	Manganese dioxide	36,7	9,8%
PC	23,8	6,4%	Steel	13,1	3,5%	Water	8,7	2,3%
PE	4,4	1,2%	Steel electrogalvanised	3,4	0,9%	Potassium hydroxide	6,1	1,6%
PE-LD	3,5	0,9%	Tin	2,7	0,7%	Carbon	4,0	1,1%
Others	7,3	2,0%	Others	6,8	1,8%	Glass Fiber	3,2	0,9%
						Others	3,7	1,0%
						Packaging		
						Cardboard	145,0	38,8%
						Paper	50,0	13,4%

Total mass of reference product: 374,2 g

Estimated recyclable content: 42,8%

> ENERGY MODE

European mix.

> CHEMICAL SUBSTANCES

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



— Manufacturing

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

> Energy model

Moroccan 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

The adhesive strip required for installation is included with the product, so it is modeled in the Manufacturing section.

> Installation processes

There is no installation process due to the adhesive strip provided.

> Energy model

No



— Use

> This active product of Categorie 2 is autonome.

> Energy model of the usage phase: None

> Consumables and maintenance: 4 Alkaline AA-LR06 batteries



— 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.

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© v5.6.0.1

Indicators	Global	Unit	Manufacturing	Distribution	Installation	Usage	End of Life
Acidification potential of soil and water	1.00e-2	kg SO ₂ eq	6.50e-3	2.76e-3	7.01e-5	5.78e-4	1.20e-4
Abiotic depletion (elements, ultimate reserves)	6.16e-4	kg antimony eq	5.94e-4	3.53e-9	7.30e-10	2.25e-5	2.56e-9
Abiotic depletion (fossil fuel)	4.72e+1	MJ	4.13e+1	1.24e+0	2.17e-1	2.79e+0	1.64e+0
Air pollution	4.56e+2	m ³	3.66e+2	1.33e+1	2.27e+0	5.97e+1	1.45e+1
Eutrophication	2.21e-3	kg(PO ₄) ³⁻ -eq	1.33e-3	2.72e-4	4.32e-4	9.22e-5	8.18e-5
Global Warming	3.96e+0	kg CO ₂ eq	3.30e+0	9.74e-2	2.52e-1	1.92e-1	1.19e-1
Ozone layer depletion	6.89e-7	kg CFC-11 eq	6.29e-7	1.67e-10	6.74e-10	3.63e-8	2.29e-8
Photochemical oxidation	8.76e-4	kg C ₂ H ₄ eq	6.03e-4	1.37e-4	6.04e-5	3.77e-5	3.77e-5
Water pollution	5.04e+2	m ³	4.19e+2	1.45e+1	1.25e+1	9.57e+0	4.86e+1
Total Primary Energy	4.84e+1	MJ	4.14e+1	1.25e+0	2.00e-1	3.61e+0	1.90e+0
Net use of freshwater	2.61e-2	m ³	2.21e-2	7.53e-6	2.06e-5	3.61e-3	3.15e-4

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Independant verification of the declaration and data, according to ISO 14025:2010 Internal <input type="checkbox"/> External <input checked="" type="checkbox"/> Bureau Veritas CODDE	
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)	
PEP are compliant with XP C08-100-1 : 2014. The elements of the present PEP cannot be compared with elements from another program.	
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