somfy

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

Product Environmental Profile

Wired motor for blind and rolling shutters LT50 PA

PEP ecopassport

Reference product

> Reference product

VECTRAN 50/12 PA

Ref 200275A

> Functional unit

Ensure the closing and opening action by performing 14 000 operating cycles, over a service life of 15 years, with a torque of 50 Nm, on a run of 2 meters, corresponding to 13 windings turns per half-cycle, with a tube diameter of 25 mm.

> References covered

HELIOS 35/17 PA, 5104871A
START 6/17 PA, 200272A
MARINER 40/17 PA, 200274A
VECTRAN 50/12 PA, 200275A
ARIANE 6/17 PA, 200283A
JET 8/17 PA, 200284A
JET 10/17 PA, 200285A
ATLAS 15/17 PA, 200286A
METEOR 20/17 PA, 200287A
GEMINI 25/17 PA, 200288A
APOLLO 30/17 PA, 200289A
APOLLO 35/17 PA, 200290A
HERMES 4/32 PA, 200291A
ARIANE 6/32 PA, 200292A
JET 10/32 PA, 200293A

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	%
PA66	166,10	6,3%	**Steel**	1910,09	72,1%	**Glass fiber**	113	4,3%
PVC	120	4,5%	**Copper**	71,2	2,7%	**Lubricant**	25	0,9%
POM	35,7	1,3%	**Bronze**	4,47	0,2%	**Polyurethane glue**	10,6	0,4%
PC	15,9	0,6%	**Tin**	2,87	0,1%	**Other**	4,22	0,2%
PA6	12,9	0,5%	**Other**	25,715	1,0%			
PBT	6,79	0,3%						
PP	6,62	0,2%						
PU	5,86	0,2%						
PET	5,02	0,2%						
PELD	4	0,2%						
Polyester resin	2,79	0,1%				**Packaging**		
Epoxy resin	2,79	0,1%				**Cardboard**	52,40	2,0%
Other	22,7	0,9%				**Paper**	23,10	0,9%
Total mass of reference flow: 2649,9g								
Estimated recyclable content: 73%								

> CHEMICAL SUBSTANCES

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

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Manufacturing

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

> Energy model
Tunisian Mix

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
No

Use

For the considered scenario, the product has a power of 275W in active mode during 0,27% of the time. This motorization having a mechanical control, it does not consume in standby, we therefore consider 0W for 99.73% of the time remaining. This corresponds to an energy consumption of 237 kWh for the lifetime of 15 years.

> Energy model of the use phase: European Mix

> Consumables and maintenance: None

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:

- 1000 km of transport
- A waste pretreatment of electrical and electronic equipment, including dismantling and material separation.
- A waste incineration of electrical and electronic equipment

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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© v5.8.1

Indicators	Global	Unit	Manufacturing	Distribution	Installation	Usage	End of Life
Acidification potential of soil and water	5,48E-01	kg SO2 equivalent	4,01E-02	2,23E-02	2,97E-05	4,83E-01	1,77E-03
"Abiotic depletion (elements, ultimate reserves)"	2,85E-04	kg antimony equivalent	2,74E-04	2,85E-08	3,24E-10	1,01E-05	1,08E-08
"Abiotic depletion (fossil fuels)"	1,42E+03	MJ	9,64E+01	1,00E+01	7,50E-02	1,32E+03	3,04E+00
Air pollution	6,64E+03	m³	1,49E+03	1,08E+02	9,91E-01	4,99E+03	5,44E+01
Eutrophication	4,00E-02	kg PO4 equivalent	6,50E-03	2,20E-03	1,62E-04	2,92E-02	1,97E-03
Global Warming	1,36E+02	kg CO2 equivalent	1,16E+01	7,88E-01	9,65E-02	1,16E+02	7,97E+00
Ozone layer depletion	8,51E-06	kg CFC-11 equivalent	9,36E-07	1,35E-09	2,68E-10	7,55E-06	1,92E-08
Photochemical oxidation	3,16E-02	kg ethylene equivalent	3,80E-03	1,11E-03	2,30E-05	2,66E-02	1,01E-04
Water pollution	6,53E+03	m³	1,40E+03	1,17E+02	4,63E+00	4,78E+03	2,27E+02
Total Primary Energy	2,65E+03	MJ	3,23E+02	1,01E+01	8,28E-02	2,31E+03	4,01E+00
Total use of renewable primary energy resources	2,97E+02	MJ	2,35E+00	1,29E-02	9,41E-04	2,94E+02	4,13E-03
Total use of non-renewable primary energy resources	2,35E+03	MJ	3,20E+02	1,01E+01	8,18E-02	2,02E+03	4,01E+00
Use of renewable primary energy excluding renewable primary energy used as raw material	2,96E+02	MJ	2,17E+00	1,29E-02	9,41E-04	2,94E+02	4,13E-03
Use of renewable primary energy resources used as raw material	1,76E-01	MJ	1,76E-01	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	2,34E+03	MJ	3,08E+02	1,01E+01	8,18E-02	2,02E+03	4,01E+00
Use of non renewable primary energy resources used as raw material	1,28E+01	MJ	1,28E+01	0,00E+00	0,00E+00	0,00E+00	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	8,01E-01	kg	8,01E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Net use of freshwater	4,21E+02	m³	8,64E-01	6,09E-05	9,21E-06	4,20E+02	2,93E-03
Hazardous waste disposed	1,35E+01	kg	8,35E+00	0,00E+00	6,92E-05	6,04E-02	5,13E+00
Non hazardous waste disposed	4,35E+02	kg	2,98E+00	2,43E-02	8,28E-02	4,32E+02	1,34E-02
Radioactive waste disposed	2,90E-01	kg	1,03E-03	1,69E-05	1,19E-06	2,89E-01	1,85E-05
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	1,47E-02	MJ	1,47E-03	0,00E+00	1,32E-02	0,00E+00	0,00E+00

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> Extrapolation rule

For each stage of lifecycle, the environmental impacts of the product concerned are calculated by multiplying the impacts of the reference product by the extrapolation coefficient. The «Sum» column is calculated by adding the environmental impacts of each stage of the lifecycle.

	Manufacturing	Distribution	Installation	Use	End of life	Application example: Global sum for Global Warming indicator (kg CO2 eq)
50/12 (REF)	1	1	1	1	1	136,00
40/17	1	1	1	0,80	1	113
35/17 & 30/17	1	1	1	0,71	1	102
25/17	1	1	1	0,50	1	78,5
20/17	1	1	1	0,47	1	75,1
15/17	1	1	1	0,41	1	68,3
10/17	1	1	1	0,35	1	61,4
8/17 & 6/17	1	1	1	0,30	1	54,6
4/32	1	1	1	0,14	1	36,7

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Accreditation number: VH18	Programme information: **www.pep-ecopassport.org**
Date of issue: 09-2020	Validity period: 5 years
Independent verification of the declaration and data, in compliance with ISO 14025 : 2010 Internal ❒ External ☒ Bureau Veritas LCIE	
The PCR review was conducted by a panel of experts chaired by Philippe Osset (SOLINNEN)	
PEP are compliant with XP C08-100-1: 2016 The elements of the present PEP cannot be compared with elements from another programme.	
Document in compliance with ISO 14025: 2010 "Environmental labels and declarations. Type III environmental declarations	
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