

Product Environmental Profil

Motor for rolling shutter LT50 CSI & LT50 CSI PA



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

LT VECTRAN 50/12 CSI

Réf. **992170F**

> 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 50 mm.

> References covered

992080E 5148671A;	HELIOS 30/12 CSI	992247E 5148669A;	METEOR 20/12 CSI	992320B;	HELIOS 30/12 CSI PA
992253E 5103289B;	HELIOS 30/17 CSI	992249E 5148674A;	MARINER 40/12 CSI	992321B;	MARINER 40/12 CSI PA
5102458B;	LT50 CSI 40/17 G1 CA	992248E 5103286B;	MARINER 40/17 CSI	992322B;	VECTRAN 50/12 CSI PA
992254E 5103290B;	GEMINI 25/17 CSI	992245E 5148677A;	VECTRAN 50/12 CSI	992246E 5103292B;	METEOR 20/17 CSI
992256E;	APOLLO 35/17 CSI	5103293B;	518A6 18/20 CSI	992252E 5103295B	JET 10/17 CSI
5104943B;	JET 8/17 NHK	5103288B;	538R6 38/14 CSI	992255E 5148667A	ATLAS 15/12 CSI
5102455B;	LT50 CSI 20/17 G1 CA	992318B;	ATLAS 15/12 CSI PA	5103297B;	CERES 8/17 CSI
5102459B;	LT50 CSI 50/12 G1 CA	992319B;	METEOR 20/12 CSI PA		



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	
	%		%		%
PA 66	3.6	Steel	48.4	Glass fiber	3.0
PVC	3.5	Zamak	15.8	Other	0.2
Polystyrene	1.8	Copper	8.5	Sum	3.2
PC	1.2	Tin	1.2		
POM	1.2	Stainless steel	0.4		
Other	1.6	Other	0.7	Packaging	
Sum	12.9	Sum	75.0	Cardboard	6.8
				Paper	2.1
				Sum	8.9
Total mass of the reference product : 3395g					
Estimated recyclable content : 73.6%					

> CHEMICAL SUBSTANCES

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



— Manufacturing

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

> Energy model

Poland 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

Not applicable



— Use

For the considered scenario, the product has a power of 240W in active mode during 0.43% of the life cycle. Product is equipped with a mechanical cage, therefore there is no standby consumption.

> **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:

- 1 000 km of transport.
- A waste pretreatment of electrical and electronic equipment, including dismantling and material separation
- A waste incineration of electrical and electronic equipment.

— 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.

Indicators	Units	Global	Manufacturing	Distribution	Installation	Use	End of life
Acidification potential of soil and water	Kg eq. SO ₂	1.83e-1	5.86e-2	2.90e-2	9.31e-5	9.43e-2	6.88e-4
Abiotic depletion (elements. ultimate reserves)	Kg eq. Antimoine	1.29e-3	1.29e-3	3.95e-8	1.15e-9	5.55e-6	7.62e-9
Abiotic depletion (fossil fuels)	MJ	1.08e+3	2.22e+2	1.39e+1	2.18e-1	8.41e+2	1.55e+0
Air pollution	m ³	7.97e+3	4.08e+3	1.42e+2	3.84e+0	3.73e+3	1.79e+1
Eutrophication	kg eq. PO ₄	3.39e-2	1.14e-2	2.90e-3	7.06e-4	1.74e-2	1.46e-3
Global Warming	kg eq. CO ₂	7.80e+1	2.15e+1	1.08e+0	3.93e-1	5.40e+1	1.03e+0
Ozone layer depletion	kg eq. CFC-11	1.73e-6	1.51e-6	1.88e-9	1.20e-9	2.14e-7	4.30e-9
Photochemical oxidation	kg eq. ethylene	1.50e-2	5.98e-3	1.45e-3	9.41e-5	7.42e-3	5.03e-5
Water pollution	m ³	3.86e+3	1.74e+3	1.62e+2	1.92e+1	1.91e+3	3.98e+1
Total Primary Energy	MJ	2.20e+3	4.84e+2	1.39e+1	2.53e-1	1.70e+3	1.76e+0
Total use of renewable primary energy resources	MJ	2.82e+2	7.83e+0	1.79e-2	4.33e-3	2.74e+2	2.31e-2
Total use of non-renewable primary energy resources	MJ	1.92e+3	4.76e+2	1.39e+1	2.48e-1	1.43e+3	1.73e+0
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	2.81e+2	7.14e+0	1.79e-2	4.33e-3	2.74e+2	2.31e-2
Use of renewable primary energy resources used as raw material	MJ	6.96e-1	6.96e-1	0.00e+0	0.00e+0	0.00e+0	0.00e+0
Use of nonrenewable primary energy excluding nonrenewable primary energy used as raw material	MJ	1.90e+3	4.63e+2	1.39e+1	2.48e-1	1.43e+3	1.73e+0
Use of nonrenewable primary energy resources used as raw material	MJ	1.36e+1	1.36e+1	0.00e+0	0.00e+0	0.00e+0	0.00e+0
Use of nonrenewable secondary fuels	MJ	0.00e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0
Use of renewable secondary fuels	MJ	0.00e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0
Use of secondary material	kg	9.58e-1	9.58e-1	0.00e+0	0.00e+0	0.00e+0	0.00e+0
Net use of fresh water	m ³	4.33e+0	1.90e+0	8.45e-5	3.49e-5	2.43e+0	4.10e-4
Hazardous waste disposed	kg	3.52e+1	3.36e+1	0.00e+0	3.12e-4	1.05e+0	5.86e-1
Non hazardous waste disposed	kg	1.72e+1	5.81e+0	3.37e-2	3.77e-1	8.05e+0	2.92e+0
Non hazardous waste disposed	kg	3.57e-3	1.83e-3	2.35e-5	5.41e-6	1.68e-3	2.86e-5
Components for reuse	kg	0.00e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0
Materials for recycling	kg	3.09e-2	3.09e-2	0.00e+0	0.00e+0	0.00e+0	0.00e+0
Materials for energy recovery	kg	3.12e-9	3.12e-9	0.00e+0	0.00e+0	0.00e+0	0.00e+0
Exported Energy	MJ	1.34e-1	9.42e-2	0.00e+0	4.01e-2	0.00e+0	0.00e+0

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> Here are the impacts of the B module.

Indicators	Units	Use phase	B1	B2	B3	B4	B5	B6	B7
Acidification potential of soil and water	kg SO2 eq	9.43e-2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.43e-2	0.00E+00
Abiotic depletion (elements. ultimate reserves)	Kg eq. Antimoine	5.55e-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.55e-6	0.00E+00
Abiotic depletion (fossil fuels)	MJ	8.41e+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.41e+2	0.00E+00
Air pollution	m ³	3.73e+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.73e+3	0.00E+00
Eutrophication	kg PO4-- eq	1.74e-2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74e-2	0.00E+00
Global Warming	kg CO2 eq.	5.40e+1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.40e+1	0.00E+00
Ozone layer depletion	kg CFC-11 eq.	2.14e-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14e-7	0.00E+00
Photochemical oxidation	kg ethylene eq.	7.42e-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.42e-3	0.00E+00
Water pollution	m ³	1.91e+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91e+3	0.00E+00
Total Primary Energy	MJ	1.70e+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70e+3	0.00E+00
Total use of renewable primary energy resources	MJ	2.74e+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74e+2	0.00E+00
Total use of non-renewable primary energy resources	MJ	1.43e+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43e+3	0.00E+00
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	2.74e+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74e+2	0.00E+00
Use of renewable primary energy resources used as raw material	MJ	0.00e+0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00e+0	0.00E+00
Use of nonrenewable primary energy excluding nonrenewable primary energy used as raw material	MJ	1.43e+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43e+3	0.00E+00
Use of nonrenewable primary energy resources used as raw material	MJ	0.00e+0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00e+0	0.00E+00
Use of nonrenewable secondary fuels	MJ	0.00e+0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00e+0	0.00E+00
Use of renewable secondary fuels	MJ	0.00e+0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00e+0	0.00E+00
Use of secondary material	kg	0.00e+0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00e+0	0.00E+00
Net use of fresh water	m ³	2.43e+0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43e+0	0.00E+00
Hazardous waste disposed	kg	1.05e+0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05e+0	0.00E+00
Non hazardous waste disposed	kg	8.05e+0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.05e+0	0.00E+00
Non hazardous waste disposed	kg	1.68e-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68e-3	0.00E+00
Components for reuse	kg	0.00e+0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00e+0	0.00E+00
Materials for recycling	kg	0.00e+0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00e+0	0.00E+00
Materials for energy recovery	kg	0.00e+0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00e+0	0.00E+00
Exported Energy	MJ	0.00e+0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00e+0	0.00E+00

> Those impacts are only applicable to the reference product on page 1.

> Extrapolation rule

For each phase of the life cycle, there is an extrapolation factor. To obtain the impacts of the other product, you need to multiply by the specific extrapolation factor.

	Manufacturing	Distribution	Installation	Use	End of life	Example for Use Phase Global warming (kg eq. CO2)
5102459B / 992322B 992321B / 992245E 5148677A / 992249E 5148674A	1.00	1.00	1.00	1.00	1.00	5.40E+01
992080E / 5148671A 992320B	1.00	1.00	1.00	0.67	1.00	3.60E+01
992253E / 5103289B 992256E	1.00	1.00	1.00	0.71	1.00	3.84E+01
992248E / 5103286B 5102458B	1.00	1.00	1.00	0.80	1.00	4.32E+01
992254E / 5103290B	1.00	1.00	1.00	0.50	1.00	2.72E+01
5104943B / 5103297B	1.00	1.00	1.00	0.30	1.00	1.60E+01
992246E / 5103292B 5102455B	1.00	1.00	1.00	0.48	1.00	2.56E+01
992252E / 5103295B	1.00	1.00	1.00	0.36	1.00	1.92E+01
992252E / 5103295B 992318B	1.00	1.00	1.00	0.50	1.00	2.70E+01
992247E / 5148669A 992319B	1.00	1.00	1.00	0.58	1.00	3.15E+01
5103293B	1.00	1.00	1.00	0.43	1.00	2.33E+01
5103288B	1.00	1.00	1.00	0.75	1.00	4.06E+01

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Accreditation number: VH18	Programme information: www.pep-ecopassport.org
Date of issue: 06-2022	Validity period: 5 years
Independent verification of the declaration and data, in compliance with ISO 14025 : 2006 Internal <input type="checkbox"/> External <input checked="" type="checkbox"/> 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 program.	
Document in compliance with ISO 14025: 2006 "Environmental labels and declarations. Type III environmental declarations"	
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