

# Product Environmental Profile

Motor for blinds or projection screens  
Sonesse 50 RTS / WT



## Reference product



### > Reference product

SONESSE 50 RTS 15/17

Ref **1001780**

### > Functional unit

Ensure the closing and opening action by performing 10 000 operations cycles, with a torque of 15 Nm and a length of 2 meters, for a lifetime of 15 years, corresponding to 14 winding turns per half cycle with a pulley diameter of 22 mm. In case the interior blind performs orientations, the number of orientation cycle is 20 000.

### > References covered

<b>1001780</b> SONESSE 50 RTS 15/17 VVF3M UNIT G1	<b>1001784</b> SONESSE 50 WT 6/17 VVF3M UNIT G1
<b>1001781</b> SONESSE 50 RTS RH 6/17 VVF3M UNIT G1	<b>1001788</b> SONESSE 50 WT 10/28 VVF3M BAR G1
<b>1001782</b> SONESSE 50 RTS 6/17 VVF3M UNIT G1	<b>1001789</b> SONESSE 50 WT 6/28 VVF3M BAR G1
<b>1001786</b> SONESSE 50 RTS 10/28 VVF3M UNIT G1	<b>1001800</b> 506S2 SONESSE WT PS 6/32 VVF2M UNIT G2
<b>1001787</b> SONESSE 50 RTS 6/28 VVF3M UNIT G1	<b>1001801</b> 506S2 SONESSE WT PA 6/32 VVF0.12M G2
<b>1001805</b> 510S2 SONESSE RTS RH 10/32 SJT G2	<b>1001810</b> 510S2 SONESSE WT RH 10/32 SJTW 3M G2
<b>1001806</b> 506S2 SONESSE RTS RH 6/32 SJTW G2	<b>1001812</b> 506S2 SONESSE WT RH 6/32 SJTW 3M G2
<b>1001807</b> 510S2 SONESSE RTS 10/32 SJTW 3 G2	<b>1001813</b> 510S2 SONESSE WT 10/32 SJTW 3M UNIT G2
<b>1001808</b> 506S2 SONESSE RTS 6/32 SJTW 3M G2	<b>1001814</b> 506S2 SONESSE WT 6/32 SJTW 3M UNIT G2
<b>1001809</b> 506S2 SONESSE RTS 6/32 SJTW 3M G2	<b>1002289</b> SONESSE 50 WT PA 6/28 VVF3M BAR G1
<b>1003071</b> SONESSE 50 RTS RH 6/28 UNIT G1	<b>1002323</b> 510S2 SONESSE WT PA 10/32 VVF0.12 G2
<b>1003100</b> SONESSE 50 RTS RH 10/28 VVF3M G1	<b>1002324</b> 510S2 SONESSE WT PS 10/32 VVF2M G2
<b>1001783</b> SONESSE 50 WT 15/17 VVF3M UNIT G1	<b>1002466</b> SONESSE 50 WT PA 10/28 VVF3M BAR G1



## 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	%
Silicon rubber	113,0	3,7%	Steel	1761,9	57,3%	Glass fibre	64,9	2,1%
PA 6.6	190,3	6,2%	Copper	217,0	7,1%	Synthetic oil	14,2	0,5%
POM	51,3	1,7%	Zamak	68,0	2,2%	Other	12,6	0,4%
Polyvinylchloride resin (S-PVC)	40,0	1,3%	Bronze	14,6	0,5%			
Expandable polystyrene	30,0	1,0%	Iron	9,4	0,3%			
Polyester resin	14,7	0,5%	Aluminium	3,4	0,1%			
PA 6	12,9	0,4%	Other	22,2	0,7%			
ABS	8,5	0,3%						
PET	3,4	0,1%						
Epoxy resin	3,0	0,1%						
Other	26,7	0,9%						
<b>Total mass of reference flow: 3072,47g</b>						<b>Packaging</b>		
<b>Estimated recyclable content: 70,6%</b>						Cardboard	202,0	6,6%
						Paper	188,5	6,1%

### > 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

Polish 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
- A wedge in polystyrene expended with gas from biomethanisation (in order to reduce its carbon impact)



### — 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 152.3W in active mode during 0,19% of the time and a standby power of 0.37W during 99,81% of the time. This corresponds to an energy consumption of 38.05 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 as indicated in PCR:

- 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	2,61E-01	kg SO2 equivalent	5,54E-02	2,55E-02	1,79E-04	1,78E-01	1,79E-03
"Abiotic depletion (elements, ultimate reserves)"	1,76E-03	kg antimony equivalent	1,75E-03	3,26E-08	2,11E-09	3,70E-06	1,09E-08
"Abiotic depletion (fossil fuels)"	6,33E+02	MJ	1,35E+02	1,14E+01	4,17E-01	4,84E+02	3,09E+00
Air pollution	4,46E+03	m <sup>3</sup>	2,44E+03	1,23E+02	6,53E+00	1,83E+03	5,52E+01
Eutrophication	2,34E-02	kg PO4 equivalent	7,44E-03	2,51E-03	6,90E-04	1,07E-02	2,00E-03
Global Warming	6,71E+01	kg CO2 equivalent	1,51E+01	9,00E-01	4,57E-01	4,26E+01	8,08E+00
Ozone layer depletion	4,61E-06	kg CFC-11 equivalent	1,81E-06	1,54E-09	1,36E-09	2,77E-06	1,94E-08
Photochemical oxidation	1,58E-02	kg ethylene equivalent	4,55E-03	1,26E-03	1,08E-04	9,76E-03	1,02E-04
Water pollution	3,57E+03	m <sup>3</sup>	1,43E+03	1,34E+02	1,89E+01	1,76E+03	2,30E+02
Total Primary Energy	1,23E+03	MJ	3,61E+02	1,15E+01	4,63E-01	8,51E+02	4,07E+00
Total use of renewable primary energy resources	1,18E+02	MJ	9,36E+00	1,47E-02	7,35E-03	1,08E+02	4,18E-03
Total use of non-renewable primary energy resources	1,11E+03	MJ	3,52E+02	1,15E+01	4,55E-01	7,43E+02	4,07E+00
Use of renewable primary energy excluding renewable primary energy used as raw material	1,17E+02	MJ	8,74E+00	1,47E-02	7,35E-03	1,08E+02	4,18E-03
Use of renewable primary energy resources used as raw material	6,23E-01	MJ	6,23E-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	1,10E+03	MJ	3,37E+02	1,15E+01	4,55E-01	7,43E+02	4,07E+00
Use of non renewable primary energy resources used as raw material	1,44E+01	MJ	1,44E+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	1,09E+00	kg	1,09E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Net use of freshwater	1,55E+02	m <sup>3</sup>	1,03E+00	6,95E-05	6,62E-05	1,54E+02	2,97E-03
Hazardous waste disposed	3,03E+01	kg	2,51E+01	0,00E+00	3,22E-04	2,22E-02	5,21E+00
Non hazardous waste disposed	1,70E+02	kg	1,08E+01	2,77E-02	4,41E-01	1,59E+02	1,36E-02
Radioactive waste disposed	1,07E-01	kg	1,15E-03	1,93E-05	8,90E-06	1,06E-01	1,88E-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	2,23E-08	kg	2,23E-08	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Exported Energy	1,19E-01	MJ	1,20E-02	0,00E+00	1,08E-01	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.

These environmental impacts are only applicable to the reference product mentioned on page 1. To cover all the "References covered" mentioned on page 1, calculations by extrapolation coefficients are required.

	Manufacturing	Distribution	Installation	Use	End of life	Application example: Global sum for Global Warming indicator (kg CO2 eq)
<b>6/32</b>	1	1	1	0,68	1	53,5
<b>6/28</b>	1	1	1	0,82	1	59,4
<b>6/17</b>	1	1	1	0,91	1	63
<b>10/32</b>	1	1	1	0,73	1	55,3
<b>10/28</b>	1	1	1	0,90	1	62,6
<b>15/17 (REF)</b>	1	1	1	1,00	1	67,1

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Date of issue: 12-2020	Validity period: 5 years
Independent verification of the declaration and data, in compliance with ISO 14025 : 2010 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 programme.	
Document in compliance with ISO 14025: 2010 "Environmental labels and declarations. Type III environmental declarations"	
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