

Reference product



> Reference product

Roll Up 28 WT/PIN

Ref **1002832**

> Functional unit

Ensure the closing action by performing 10 000 operating cycles, on a reference service life of 15 years, with a torque of 0.8Nm, on a length of 2 meters, corresponding to 14 winding turns per half-cycle, with a pulley diameter of 22 mm.

> References covered

Roll Up 28 WT W/Ears, ref 1002833
Roll Up 28 WT W/StarHole, ref 1002834

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			Others		
	g	%		g	%		g	%
PA66	28,3	7,2%	Steel	105,5	26,8%	Glass fiber	4,4	1,1%
PVC	5,6	1,4%	Copper	35,8	9,1%	Other	2,3	0,6%
Other	5,0	1,3%	Neodymium rare earth magnet	27,7	7,0%			
			Invar	20,4	5,2%			
			Zinc	14,8	3,8%			
			Other	5,9	1,5%			
						Packaging		
						Paper	70,0	17,8%
						Cardboard	67,8	17,2%
Total mass of reference product: 393,4 g								
Estimated recyclable content: 55,4 %								

> 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

Chinese mix.



Distribution

The packaging is 100% recyclable. Paper is 100% recycled fibers and cardboard is minimum 50% recycled fibers. Packaging is continuously improved by reducing the amount and using a maximum of recycled material.



Installation

> Installation elements

A crown and a wheel required for installation are 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 4.8W in active mode during 0.2% of the time and a standby power of 0.192 W during 99.8% of the time. This corresponds to an energy consumption of 26.4 kWh for the lifetime of 15 years.

> Energy model of the usage phase: Europe mix

> Consumables and maintenance: None



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 a 1000Km transport of the product at the end of life and a landfill treatment.

> Energy model

European mix



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© v5.8.0.

Product Environmental Profile

Wired motor for indoor blinds Roll Up 28



Indicators	Global	Unit	1. Manufacturing	2. Distribution	3. Installation	4. Use	5. End of life
Acidification potential of soil and water	1,31E-01	kg SO2 eq	1,09E-02	1,61E-03	1,37E-04	1,18E-01	9,40E-05
Abiotic depletion (elements, ultimate reserves)	5,49E-04	kg antimony eq	5,48E-04	2,41E-09	3,37E-09	7,11E-07	1,37E-09
Abiotic depletion (fossil fuels)	2,28E+02	MJ	6,26E+01	8,44E-01	3,86E+00	1,61E+02	3,32E-01
Air pollution	1,28E+03	m3	5,95E+02	7,98E+00	9,78E+00	6,69E+02	2,38E+00
Eutrophication	8,46E-03	kg(P04)3-eq	3,48E-03	1,65E-04	2,57E-04	4,43E-03	1,30E-04
Global Warming	2,12E+01	kg CO2 eq	5,15E+00	6,54E-02	3,35E-01	1,56E+01	2,39E-02
Ozone layer depletion	4,03E-06	CFC-11 eq	2,33E-07	1,15E-10	8,32E-09	3,79E-06	4,69E-10
Photochemical oxidation	6,71E-03	kg C2H4 eq	9,69E-04	8,08E-05	7,84E-05	5,58E-03	7,26E-06
Water pollution	1,02E+03	m3	3,46E+02	9,88E+00	9,04E+00	6,55E+02	2,91E+00
Total Primary Energy	3,99E+02	MJ	7,69E+01	8,49E-01	4,16E+00	3,16E+02	3,53E-01
Net use of freshwater	9,47E-02	m3	5,33E-02	5,18E-06	5,71E-04	4,07E-02	1,64E-05


Product Environmental Profile

Wired motor for indoor blinds Roll Up 28



> Extrapolation rule

There is no extrapolation rule for additional products covered by this PEP. The reference product is the product with the largest impacts, all products combined.

Registration number : SOMF-00002-V01.02-EN	Applicable PCR: PCR-ed3-EN-2015 04 02 Supplemented by PSR-0006-ed1.1-EN-2015 10 16	
Accreditation number: VH18	Programme information: www.pep-ecopassport.org	
Edition date: 06-2016	Period of validity: 5 years	
Independent verification of the declaration and data, according to ISO 14025 : 2010 Internal <input type="checkbox"/> External <input checked="" type="checkbox"/> Bureau Veritas LCIE		
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)		
The elements of the present PEP cannot be compared with elements from another programme.		
Somfy contact: Justine ZAWADA, Sustainable Development Engineer, justine.zawada@somfy.com		