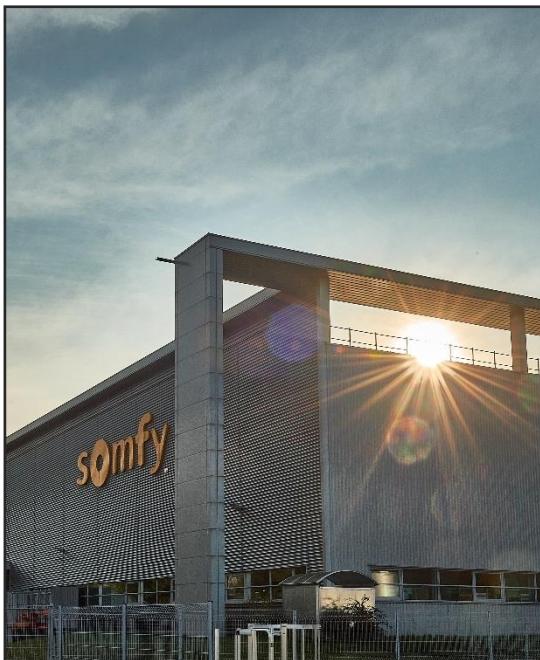


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Product Environmental Profil

Radio motor for outdoor Venetian blind J4 io Protect Range



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

J4 18 18/24 IO PROTECT UNIT HE

Réf. 1240212

> Functional unit

To ensure the closing and opening action by performing 14 000 operation cycles, with a torque of 18 N.m and on a length of 2 meters for a lifetime of 15 years. As the exterior Venetian Blind rotates, the engine must perform 28 000 revolutions.

>References covered

| | | | | | |
|---------|----------------------------------|---------|--------------------------------|---------|--------------------------------------|
| 1210673 | J406 6/24 IO PROTECT UNIT-P145 | 1240267 | J4 10/24 IO PRO WA UNIT | 1210687 | J4 6/24 IO PRO PAC160 SC-P150 |
| 1210674 | J4 10/24 IO PROTECT UNIT-P145 | 1241006 | J406 6/24 IO PROTECT PACK SWCZ | 1210688 | J4 10/24 IO PRO PACK 160-P150 |
| 1210675 | J4 18/24 IO PROTECT UNIT-P145 | 1241228 | J418 IO PRO 18/24 3M TIO P120 | 1210689 | J4 18/24 IO PRO PAC160 SC-P149 |
| 1210676 | J4 6/24 IO PRO UNIT SWCZ | 1241342 | J406 io PRO 6/24 0.5M AA PACK | 1210708 | J4 6/24 IO PRO PACK WIH |
| 1210677 | J4 10/24 IO PRO UNIT SWCZ | 1241343 | J406 io PRO 6/24 0.5M AA UNIT | 1210709 | J4 10/24 IO PRO UNIT WIH |
| 1210679 | J4 6/24 IO PRO UNIT AUST | 1241344 | J410 io PRO 10/24 0.5M AA UNIT | 1210721 | J410 10/24 IO PROTECT UNIT RX - P153 |
| 1210680 | J4 10/24 IO PRO UNIT AUST | 1241345 | J418 io PRO 10/24 0.5M AA UNIT | 1210725 | J4 6/24 IO PROT UNIT RQDI-P134 |
| 1210681 | J4 18/24 IO PRO UNIT AUST | 1241349 | J406 io PRO 6/24 0.5M HD PACK | 1210726 | J4 6/24 IO PROTECT UNIT WIH - P132 |
| 1210682 | J4 6/24 IO PR P120 RQDIF-P133 | 1241350 | J410 io PRO 10/24 0.5M HD UNIT | 1240210 | J406 06/24 IO PROTECT PACK HE |
| 1210683 | J4 10/24 IO PR UNIT RQDIF - P133 | 1241351 | J418 io PRO 18/24 0.5M HD UNIT | 1240211 | J410 10/24 IO PROTECT UNIT HE |
| 1210684 | J4 6/24 IO PRO PACK120 RX-P153 | 1245840 | J406 6/24 IO PRO 0.5M 144 SCHL | 1240212 | J418 6/24 IO PROTECT UNIT HE |
| 1210685 | J4 6/24 IO PRO PACK LA/GR-P146 | 1246061 | J406 IO PRO 0.5M GEN2 144 | 1240266 | J4 6/24 IO PRO WA PACK |
| 1210686 | J4 6/24 IO PRO PACK AUST | 1246062 | J410 IO PRO 0.5M GEN4 UNIT | | |

Product Environmental Profil

Radio motor for outdoor Venetian blind J4 io
Protect Range



— 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 | |
|--|------|------------------------|------|--------------------|------|
| | % | | % | | % |
| PA66 | 8.0 | Steel | 25.9 | Glass fiber | 2.0 |
| Silicon | 6.9 | Copper | 13.6 | Electrolyte | 0.3 |
| PVC | 1.9 | zamak | 12.7 | Lubricant | 0.2 |
| PET | 0.8 | Stainless steel | 6.3 | Other | 0.3 |
| POM | 0.6 | Aluminium | 6.0 | Total | 2.8 |
| Other | 1.4 | Other | 1.9 | Packaging | |
| Total | 19.6 | Total | 66.5 | Cardboard | 5.2 |
| | | | | Paper | 5.8 |
| | | | | Total | 11.1 |
| Total mass of the reference product : 2205g | | | | | |
| Estimated recyclable content : 64.0% | | | | | |

> CHEMICAL SUBSTANCES

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



— Representativeness —

- > Data has been collected between January and July 2023 by our design team, then treated and analyzed between July 2023.
- > Data are related to the location of the production and assembly.
- > Data matches with previous technology and commercial references only.

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Product Environmental Profil

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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**

Poland mix; 2018



— 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 155W in active mode during 0.22% of the life cycle, and 0.379W during 99.78% of the life cycle. Measurement in accordance with NF EN 60335 and EN 50564.

> **Energy model of the use phase:** European mix; 2018

> **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:

- 200 km of transport.
- A waste pretreatment of electrical and electronic equipment, including dismantling and material separation
- A waste incineration of electrical and electronic equipment.
- Loading rate of the truck going to the waste disposal center of 80%.

Product Environmental Profil

Radio motor for outdoor Venetian blind J4 io
Protect Range



— 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, on functional unit.

| Indicateurs | Units | Global | Manufacturing | Distribution | Installation | Use | End of life | Module D |
|---|--------------------|---------|---------------|--------------|--------------|---------|-------------|----------|
| Resource use, minerals and metals (Abiotic resource depletion - Elements) | kg SB eq. | 1.44e-3 | 1.44e-3 | 2.59e-8 | 3.54e-10 | 2.81e-6 | 4.53e-9 | 2.29e-6 |
| Resource use, fossils (Abiotic resource depletion - Fossil fuels) | MJ | 1.35e+3 | 3.48e+2 | 9.19e+0 | 1.12e-1 | 9.87e+2 | 1.21e+0 | 5.13e+1 |
| Acidification | mol H+ eq. | 4.32e-1 | 1.86e-1 | 2.37e-2 | 5.82e-5 | 2.21e-1 | 7.70e-4 | 1.33e-2 |
| Ecotoxicity, freshwater | CTUe | 2.37e+3 | 1.81e+3 | 4.45e-1 | 1.91e-1 | 4.17e+2 | 1.40e+2 | 5.60e+0 |
| Human toxicity, cancer | CTUh | 5.83e-6 | 5.82e-6 | 1.08e-11 | 8.16e-13 | 4.52e-9 | 1.55e-9 | 1.51e-7 |
| Human toxicity, non-cancer | CTUh | 1.44e-6 | 1.23e-6 | 2.13e-9 | 9.56e-11 | 1.79e-7 | 3.28e-8 | 4.62e-8 |
| Eutrophication, freshwater | kg P eq. | 2.12e-4 | 8.97e-5 | 2.50e-7 | 2.52e-7 | 1.06e-4 | 1.53e-5 | 3.60e-6 |
| Eutrophication, marine | kg N eq. | 5.05e-2 | 1.93e-2 | 5.67e-3 | 5.90e-5 | 2.51e-2 | 3.79e-4 | 1.49e-3 |
| Eutrophication, terrestrial | mol N eq. | 6.51e-1 | 2.08e-1 | 6.21e-2 | 2.80e-4 | 3.77e-1 | 3.41e-3 | 1.58e-2 |
| Climate change - total | kg CO2 eq. | 6.00e+1 | 1.95e+1 | 7.25e-1 | 5.58e-2 | 3.87e+1 | 1.04e+0 | 2.05e+0 |
| Climate change - biogenic | kg CO2 eq. | 3.87e-1 | 3.35e-1 | 0.00e+0 | -3.33e-11 | 5.17e-2 | -6.96e-6 | 9.06e-3 |
| Climate change - fossil | kg CO2 eq. | 5.97e+1 | 1.91e+1 | 7.25e-1 | 5.58e-2 | 3.87e+1 | 1.04e+0 | 2.04e+0 |
| Climate change - land use and land transformation | kg CO2 eq. | 4.57e-8 | 4.57e-8 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 |
| Ionising radiation, human health | kg U235 eq. | 3.89e+2 | 3.32e+2 | 1.51e-3 | 7.82e-5 | 5.76e+1 | 6.94e-3 | 2.00e-2 |
| Land use | No dimension | 9.69e-1 | 1.99e-1 | 0.00e+0 | 0.00e+0 | 7.71e-1 | 0.00e+0 | 0.00e+0 |
| Ozone depletion | kg CFC-11 eq. | 3.67e-6 | 3.50e-6 | 9.49e-10 | 1.14e-10 | 1.66e-7 | 3.86e-9 | 2.50e-8 |
| Particulate matter | Disease occurrence | 3.09e-6 | 1.25e-6 | 1.26e-7 | 4.67e-10 | 1.71e-6 | 4.58e-9 | 7.16e-8 |
| Photochemical ozone formation, human health | kg NMVOC eq. | 1.68e-1 | 7.01e-2 | 1.60e-2 | 8.42e-5 | 8.06e-2 | 8.65e-4 | 6.15e-3 |
| Water use | m3 eq. | 1.03e+1 | 8.90e+0 | 2.40e-3 | 2.06e-4 | 1.37e+0 | 1.72e-2 | 2.80e-1 |
| Total Primary Energy | MJ | 1.55e+3 | 3.60e+2 | 9.20e+0 | 1.13e-1 | 1.18e+3 | 1.23e+0 | 5.18e+1 |
| Use of renewable primary energy excluding renewable primary energy used as raw material | MJ | 2.00e+2 | 1.06e+1 | 1.18e-2 | 5.28e-4 | 1.89e+2 | 1.33e-2 | 5.50e-1 |
| Use of renewable primary energy resources used as raw material | MJ | 1.17e+0 | 1.17e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 |
| Total use of renewable primary energy resources | MJ | 2.01e+2 | 1.17e+1 | 1.18e-2 | 5.28e-4 | 1.89e+2 | 1.33e-2 | 5.50e-1 |
| Use of non renewable primary energy excluding non renewable primary energy used as raw material | MJ | 1.33e+3 | 3.36e+2 | 9.19e+0 | 1.12e-1 | 9.87e+2 | 1.21e+0 | 5.13e+1 |
| Use of non renewable primary energy resources used as raw material | MJ | 1.17e+1 | 1.17e+1 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 |
| Total use of non-renewable primary energy resources | MJ | 1.35e+3 | 3.48e+2 | 9.19e+0 | 1.12e-1 | 9.87e+2 | 1.21e+0 | 5.13e+1 |
| Use of secondary material | kg | 4.06e-1 | 4.06e-1 | 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 | 0.00e+0 |
| Use of non renewable secondary fuels | MJ | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 |
| Net use of freshwater | m3 | 2.40e-1 | 2.07e-1 | 5.58e-5 | 4.79e-6 | 3.19e-2 | 4.01e-4 | 6.51e-3 |
| Non hazardous waste disposed | kg | 1.89e+1 | 1.16e+1 | 2.22e-2 | 3.12e-2 | 5.57e+0 | 1.68e+0 | 1.68e+0 |
| Hazardous waste disposed | kg | 6.23e+1 | 6.09e+1 | 0.00e+0 | 2.45e-5 | 7.24e-1 | 6.26e-1 | 1.32e-1 |
| Radioactive waste disposed | kg | 6.05e-3 | 4.85e-3 | 1.55e-5 | 6.64e-7 | 1.17e-3 | 1.73e-5 | 9.02e-5 |
| Components for reuse | kg | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 |
| Materials for recycling | kg | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 |
| Materials for energy recovery | kg | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 |
| Exported Energy | MJ | 1.01e-1 | 9.42e-2 | 0.00e+0 | 7.03e-3 | 0.00e+0 | 0.00e+0 | 0.00e+0 |

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Product Environmental Profil

Radio motor for outdoor Venetian blind J4 io Protect Range



> Here are the impacts of the B module.

| Indicators | Units | Use phase | B1 | B2 | B3 | B4 | B5 | B6 | B7 |
|---|--------------------|-----------|---------|---------|---------|---------|---------|---------|---------|
| Resource use, minerals and metals (Abiotic resource depletion - Elements) | kg SB eq. | 2.81e-6 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 2.81e-6 | 0.00e+0 |
| Resource use, fossils (Abiotic resource depletion - Fossil fuels) | MJ | 9.87e+2 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 9.87e+2 | 0.00e+0 |
| Acidification | mol H+ eq. | 2.21e-1 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 2.21e-1 | 0.00e+0 |
| Ecotoxicity, freshwater | CTUe | 4.17e+2 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 4.17e+2 | 0.00e+0 |
| Human toxicity, cancer | CTUh | 4.52e-9 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 4.52e-9 | 0.00e+0 |
| Human toxicity, non-cancer | CTUh | 1.79e-7 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 1.79e-7 | 0.00e+0 |
| Eutrophication, freshwater | kg P eq. | 1.06e-4 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 1.06e-4 | 0.00e+0 |
| Eutrophication, marine | kg N eq. | 2.51e-2 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 2.51e-2 | 0.00e+0 |
| Eutrophication, terrestrial | mol N eq. | 3.77e-1 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 3.77e-1 | 0.00e+0 |
| Climate change - total | kg CO2 eq. | 3.87e+1 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 3.87e+1 | 0.00e+0 |
| Climate change - biogenic | kg CO2 eq. | 5.17e-2 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 5.17e-2 | 0.00e+0 |
| Climate change - fossil | kg CO2 eq. | 3.87e+1 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 3.87e+1 | 0.00e+0 |
| Climate change - land use and land transformation | kg CO2 eq. | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 |
| Ionising radiation, human health | kg U235 eq. | 5.76e+1 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 5.76e+1 | 0.00e+0 |
| Land use | No dimension | 7.71e-1 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 7.71e-1 | 0.00e+0 |
| Ozone depletion | kg CFC-11 eq. | 1.66e-7 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 1.66e-7 | 0.00e+0 |
| Particulate matter | Disease occurrence | 1.71e-6 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 1.71e-6 | 0.00e+0 |
| Photochemical ozone formation, human health | kg NMVOC eq. | 8.06e-2 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 8.06e-2 | 0.00e+0 |
| Water use | m3 eq. | 1.37e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 1.37e+0 | 0.00e+0 |
| Total Primary Energy | MJ | 1.18e+3 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 1.18e+3 | 0.00e+0 |
| Use of renewable primary energy excluding renewable primary energy used as raw material | MJ | 1.89e+2 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 1.89e+2 | 0.00e+0 |
| Use of renewable primary energy resources used as raw material | MJ | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 |
| Total use of renewable primary energy resources | MJ | 1.89e+2 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 1.89e+2 | 0.00e+0 |
| Use of non renewable primary energy excluding non renewable primary energy used as raw material | MJ | 9.87e+2 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 9.87e+2 | 0.00e+0 |
| Use of non renewable primary energy resources used as raw material | MJ | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 |
| Total use of non-renewable primary energy resources | MJ | 9.87e+2 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 9.87e+2 | 0.00e+0 |
| Use of secondary material | kg | 0.00e+0 | 0.00e+0 | 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 | 0.00e+0 | 0.00e+0 |
| Use of non renewable secondary fuels | MJ | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 |
| Net use of freshwater | m3 | 3.19e-2 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 3.19e-2 | 0.00e+0 |
| Non hazardous waste disposed | kg | 5.57e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 5.57e+0 | 0.00e+0 |
| Hazardous waste disposed | kg | 7.24e-1 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 7.24e-1 | 0.00e+0 |
| Radioactive waste disposed | kg | 1.17e-3 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 1.17e-3 | 0.00e+0 |
| Components for reuse | kg | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 |
| Materials for recycling | kg | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 |
| Materials for energy recovery | kg | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 |
| Exported Energy | MJ | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 |

> Biogenic carbon content : 0 kg C. biogenic for the product, 0.078 kg C. biogenic for the packaging.

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Product Environmental Profil

**Radio motor for outdoor Venetian blind J4 io
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> 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 | ModuleD | Example for all phases Climate change (kg eq. CO2) |
|-------|---------------|--------------|--------------|------|-------------|---------|--|
| 6N.m | 0,82 | 0,86 | 1,00 | 0,82 | 0,96 | 1,00 | 4,93E+01 |
| 10N.m | 0,91 | 0,93 | 1,00 | 0,91 | 0,98 | 1,00 | 5,47E+01 |
| 18N.m | 1,00 | 1,00 | 1,00 | 1,00 | 1,00 | 1,00 | 6,00E+01 |

Example:

Take the reference product indicators and multiply them by the coefficient of the desired product.

| Indicators 18N.m REF | Units | Global | Manufacturing | Distribution | Installation | Use | End of life | Module D |
|------------------------|------------|----------|---------------|--------------|--------------|----------|-------------|----------|
| Climate change - total | kg CO2 eq. | 6,00E+01 | 1,95E+01 | 7,25E-01 | 5,58E-02 | 3,87E+01 | 1,04E+00 | 2,05E+00 |

Desired product: 6N.m

Corresponding extrapolation factors:

| | Manufacturing | Distribution | Installation | Use | End of life | ModuleD |
|------|---------------|--------------|--------------|------|-------------|---------|
| 6N.m | 0,82 | 0,86 | 1,00 | 0,82 | 0,96 | 1,00 |

Corresponding indicators = REF indicators 18N.m * Desired product 6N.m extrapolation factors:

| Indicators 6_17 | Units | Global | Manufacturing | Distribution | Installation | Use | End of life | Module D |
|------------------------|------------|----------|---------------|--------------|--------------|----------|-------------|----------|
| Climate change - total | kg CO2 eq. | 4,93E+01 | 1,60E+01 | 6,22E-01 | 5,58E-02 | 3,16E+01 | 9,96E-01 | 2,05E+00 |

| | |
|--|---|
| Registration number : SOMF-00018-V02.01-EN | Drafting Rules: PCR-ed4-FR-2021 09 06 Complemented by : PSR-0006-ed1.1-FR-2015 10 16 |
| Accreditation number: VH48 | Programme information: www.pep-ecopassport.org |
| Date of issue: 08-2023 | 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"/> | |
| The PCR review was conducted by a panel of experts chaired by Julie ORGELET (DDEMAIN) | |
| PEP are compliant with ISO 14025 environnemental declaration type III | |
| The elements of the present PEP cannot be compared with elements from another program. | |
| Document in compliance with ISO 14025: 2010 "Environmental labels and declarations. Type III environmental déclarations. » | |
| Somfy contact: Pierre HOGUET. Ecodesign Engineer. pierre.hoguet@somfy.com | |