

	Product Environmental Profile	
---	--------------------------------------	---

	Screw Ring for Formwork Box
---	------------------------------------

Representative product	CAP853060 (Screw ring for formwork box)
Description of the product	The rotating screw ring allows the assembly and fixing of electrical equipment on the formwork boxes to install in ceilings and walls. These are mainly used in residential applications.
Functional unit	To provide mechanism to install electrical devices in ceiling and walls through formwork box during the life of 30 years.
Company information	Eaton Cooper Capri SAS 36, rue des Fontenils 41600, Nouan-le-Fuzelier, France Email: productstewardship-es@eaton.com

Constituent Materials			
Reference product mass	1.21E-02 kg (With packaging)		
Category PEP Material	Materials	Mass (kg)	Percentage (%)
Plastic	Polyethylene high density (PE-HD)	6.33E-03	52.18%
Metal	Steel	5.00E-03	41.22%
Others	Corrugated cardboard	7.00E-04	5.77%
Others	Paper	8.33E-05	0.69%
Others	Glue	1.03E-05	<0.1%
Metal	Silicon	6.41E-06	<0.1%
Total		1.21E-02	100%

Substance Assessment

The representative product is compliant with the EU-RoHS Directive (2011/65/EU) without any exemption and the product doesn't contain any substance listed as Substance-of-Very-High-Concern (SVHC) on the Candidate List of the EU-REACH Regulation (1907/2006/EC).

Additional Environmental Information

Manufacturing	The reference product is assembled at an Eaton plant holding management system certifications according to ISO 14001 standard.
Distribution	Eaton is committed to minimizing weight and volume of product and packaging with focus to optimize transport efficiency.
Installation	The installation of the product requires standard tools which do not require any additional energy source and no waste other than the obsolete product packaging is generated during this step.
Use	The product does not require energy consumption and maintenance during operation.
End of life	The recyclability rate of the product is 89.5% The rate is calculated based on the method of the IEC /TR 62635.

Environmental Impacts

The calculation of the environmental impacts is the result of the Product's Life Cycle Analysis in accordance with ISO 14040/44, covering the entire lifecycle, i.e. "Cradle-to-Grave" including the following life cycle phases: production, distribution, installation, use and end of life.
System modelling was carried out using the commercial LCA software EIME v5.9.4 with database version CODDE-2022-01.

Manufacturing Phase	The product is manufactured at Eaton facility Eaton Neuan-Le-Fuzelier, France plant. Energy model used: France
Distribution Phase	Distribution of the product in its packaging from the Eaton's last logistics platform to the installation place in France is considered as per PCR rules.
Installation Phase	Product is installed in France. Only treatment of packaging waste is considered in this phase. Energy model used for treatment of packaging: Europe
Use Phase	Reference lifetime: 30 Years (assumed) Usage profile: No energy consumption by the product during its useful life. Also, product do not require any maintenance or replacement during useful life.
End of life Phase	Product disposed with WEEE guidelines. Energy model used: Europe

Environmental Impact Indicators: Mandatory

Impact Indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of life
Global warming (GWP100)	kg CO ₂ eq.	3.58E-02	3.30E-02	8.17E-04	1.00E-04	0.00E+00	1.89E-03
Ozone layer depletion	kg CFC-11 eq.	3.28E-09	3.21E-09	1.65E-12	2.03E-13	0.00E+00	6.79E-11
Acidification potential	kg SO ₂ eq.	1.06E-04	9.96E-05	3.67E-06	4.73E-07	0.00E+00	2.62E-06
Eutrophication	kg PO ₄ ³⁻ eq.	1.05E-05	8.72E-06	8.43E-07	1.10E-07	0.00E+00	8.30E-07
Photochemical oxidation	kg ethylene eq.	1.38E-05	1.32E-05	2.61E-07	3.41E-08	0.00E+00	3.02E-07
Abiotic depletion (elements)	kg antimony eq.	2.96E-09	2.89E-09	3.27E-11	4.00E-12	0.00E+00	2.63E-11
Abiotic depletion (fossil fuels)	MJ	4.74E-01	4.51E-01	1.15E-02	1.40E-03	0.00E+00	1.05E-02
Water Pollution	m ³	1.03E+00	7.63E-01	1.34E-01	1.64E-02	0.00E+00	1.18E-01
Air pollution	m ³	3.48E+00	3.32E+00	3.35E-02	4.60E-03	0.00E+00	1.14E-01


Environmental Impact Indicators: Optional

Impact Indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of life
Use of renewable primary energy, excluding renewable primary energy resources used as raw materials	MJ	1.38E-02	1.38E-02	1.54E-05	1.88E-06	0.00E+00	1.48E-05
Use of renewable primary energy resources used as raw materials	MJ	1.26E-02	1.26E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Total use of renewable primary energy resources (primary energy and primary energy resources used as raw materials)	MJ	2.64E-02	2.64E-02	1.54E-05	1.88E-06	0.00E+00	1.48E-05
Use of non-renewable primary energy, excluding non-renewable primary energy resources used as raw materials	MJ	7.54E-01	7.28E-01	1.15E-02	1.41E-03	0.00E+00	1.37E-02

Impact Indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of life
Use of non-renewable primary energy resources used as raw materials	MJ	2.67E-01	2.67E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Total use of non-renewable primary energy resources (primary energy and primary energy resources used as raw materials)	MJ	1.02E+00	9.95E-01	1.15E-02	1.41E-03	0.00E+00	1.37E-02
Use of secondary materials	kg	2.50E-03	2.50E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Net use of fresh water	m3	5.14E-02	5.14E-02	7.31E-08	8.95E-09	0.00E+00	1.62E-06
Hazardous waste disposed of	kg	1.26E-02	8.18E-05	0.00E+00	0.00E+00	0.00E+00	1.26E-02
Non-hazardous waste disposed of	kg	4.11E-02	4.11E-02	2.90E-05	3.55E-06	0.00E+00	4.40E-05
Radioactive waste disposed of	kg	6.64E-05	6.63E-05	2.07E-08	2.53E-09	0.00E+00	7.29E-08
Materials for recycling	kg	1.30E-02	2.14E-03	0.00E+00	7.64E-04	0.00E+00	1.01E-02
Materials for energy recovery	kg	3.60E-05	0.00E+00	0.00E+00	3.60E-05	0.00E+00	0.00E+00
Total use of primary energy during the life cycle	MJ	1.05E+00	1.02E+00	1.16E-02	1.41E-03	0.00E+00	1.37E-02

Disclaimer

This Product Environmental Profile and its content is based on information available to us. It refers to the product at the date of issue. We make no express or implied representations or warranties with respect to the information contained herein.

<i>Registration N°</i>	EATO-00057-V01.01-EN	<i>Drafting rules</i>	PCR-ed3-EN-2015 04 02
<i>Verifier accreditation N°</i>	VH47	<i>Supplemented by</i>	--
<i>Date of issue</i>	12-2022	<i>Information and reference documents</i>	www.pep-ecopassport.org
		<i>Validity period</i>	5 years
Independent verification of the declaration and data, in compliance with ISO 14025: 2010			
Internal	X	External	
The PCR review was conducted by a panel of experts chaired by Philippe Osset (SOLINNEN)			
<i>The elements of the present PEP cannot be compared with elements from another program.</i>			
<i>Document in compliance with ISO 14025: 2010 « Environmental labels and declarations. Type III environmental declarations »</i>			