

Product Environmental Profile

S.1 surface-mounted housings



Company information

Berker
Schalksmühle
Klagebach 38
58579 - Schalksmühle
www.hagergroup.net

A question concerning the Product Environmental Profile:
infopep@hager.com

References covered

S.1 surface-mounted housings, from 1 to 3 gang, all colors, all depths, regular or corner shape

Methodology

PEP has been performed according to the PCR version PEP-PCR-ed3-2015 04 02 and PSR version PSR-0005-ed2-EN-2016 03 29 issued by the PEP ecopassport program. □
For further information, please see the website of the program www.pep-ecopassport.org

Reference product

Reference product identification

S.1 surface-mounted housings, 1 gang, aluminium matt (6310611404)

Functional unit

Protect persons against electrocution by direct contact and contribute to the product aesthetic for 20 years.

The functional unit is based on the use scenario recommended by the PCR for the category of the reference product.

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	%
ABS	63.90	71.60%	Steel (C45)	1.20	1.34%	Carboard + Paper	19.28	21.60%
PE-LD	3.50	3.92%				Other	0.61	0.68%
PP	0.60	0.67%						
Acrylic resin	0.15	0.17%						
Total mass of reference product :				89.50 g				

Manufacturing

These products are manufactured by a site that has received an environmental certification ISO 14001.

Distribution

The packaging has been designed in accordance with current regulations. In particular, the European directive 94/62/CE relative to packaging and packaging waste. The used packaging is 100% recyclable or recoverable. Packaging and logistic flows are continuously improved in order to reduce their impact.

Installation

Installation processes

The processes to install the product are not considered in this study because of their weak impact compared to the other life cycles steps.

Installation elements (non delivered with the product)

Elements non delivered with the product and needed to install the product are not considered.

Use

For the considered scenario, the product has no energy consumption.

Energy model of the use phase :

None

Consumables and maintenance :

None

End of life

Considering the complexity and the lack of knowledge of the electric and electronic recycling channel and processes, the standard scenario set in the PCR is considered.

The recycling potential of the product is: 64%. The calculation of this rate is based on the method of the IEC/TR 62635.

Environmental impacts

Evaluation of the environmental impact covers the following life cycle stages: raw materials + manufacturing (RMM), distribution (D), installation (I), use (U) and end of life (EoL).

All calculations are done with EIME software version 5.5.0.11 with the database version HAGER 2014 V1 .

Environmental impact indicators

Indicators	Unit	Manufacturing RMM	Distribution D	Installation I	Use U	End Of Life EoL	GLOBAL
Global Warming	kg CO ₂ eq.	5.50E-01	4.45E-03	1.31E-03	0.00E+00	7.97E-03	5.64E-01
Ozone Depletion	kg CFC-11 eq.	3.83E-08	9.02E-12	6.55E-12	0.00E+00	2.04E-10	3.85E-08
Acidification of soil and water	kg SO ₂ eq.	1.37E-03	2.00E-05	6.21E-06	0.00E+00	3.04E-05	1.43E-03
Eutrophication	kg PO ₄ ³⁻ eq.	2.03E-04	4.60E-06	4.81E-06	0.00E+00	3.46E-05	2.47E-04
Photochemical Ozone Creation	kg C ₂ H ₄ eq.	1.12E-04	1.42E-06	4.39E-07	0.00E+00	2.37E-06	1.16E-04
Depletion of abiotic resources - elements	kg Sb eq.	1.16E-07	1.78E-10	5.51E-11	0.00E+00	5.14E-10	1.16E-07
Depletion of abiotic resources – fossil fuels	MJ	9.59E+00	6.26E-02	1.83E-02	0.00E+00	1.14E-01	9.79E+00
Water Pollution	m ³	1.83E+01	7.33E-01	2.07E-01	0.00E+00	9.01E-01	2.01E+01
Air Pollution	m ³	2.84E+01	1.83E-01	1.23E-01	0.00E+00	9.46E-01	2.96E+01

Resource use indicators

Indicators	Unit	Manufacturing RMM	Distribution D	Installation I	Use U	End Of Life EoL	GLOBAL
Use of renewable primary energy, excluding renewable primary energy resources used as raw materials	MJ	3.15E-01	8.39E-05	1.37E-04	0.00E+00	2.19E-03	3.18E-01
Use of renewable primary energy resources as raw materials	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Total use of renewable primary energy resources	MJ	3.15E-01	8.39E-05	1.37E-04	0.00E+00	2.19E-03	3.18E-01
Use of non-renewable primary energy, excluding non renewable primary energy resources used as raw materials	MJ	8.41E+00	6.29E-02	1.85E-02	0.00E+00	1.21E-01	8.61E+00
Use of non-renewable primary energy resources as raw materials	MJ	3.08E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E+00
Total use of non renewable primary energy resources	MJ	1.15E+01	6.29E-02	1.85E-02	0.00E+00	1.21E-01	1.17E+01
Total use of primary energy	MJ	1.18E+01	6.30E-02	1.86E-02	0.00E+00	1.23E-01	1.20E+01
Use of secondary materials	kg	1.64E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-02
Use of renewable secondary fuels	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of non-renewable secondary fuels	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Net fresh water use	m ³	9.22E-03	3.99E-07	2.98E-07	0.00E+00	7.02E-06	9.23E-03

Waste category indicators

Indicators	Unit	Manufacturing RMM	Distribution D	Installation I	Use U	End Of Life EoL	GLOBAL
Hazardous waste disposed	kg	2.84E-02	0.00E+00	2.97E-06	0.00E+00	3.53E-05	2.84E-02
Non-hazardous waste disposed	kg	9.42E-01	1.58E-04	1.35E-02	0.00E+00	7.43E-02	1.03E+00
Radioactive waste disposed	kg	3.77E-04	1.13E-07	8.17E-08	0.00E+00	2.54E-06	3.79E-04


Output flow indicators

Indicators	Unit	Manufacturing RMM	Distribution D	Installation I	Use U	End Of Life EoL	GLOBAL
Components for re-use	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Materials for recycling	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Materials for energy recovery	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Exported energy	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

To evaluate the environmental impact of another product covered by this PEP, multiply all the environmental impact figures by the corresponding factor:

Article number	6310611404	6310621404	6310631404	6310711404	6310721404	6310731404	6310821404	6319481404
	6310611606	6310621606	6310631606	6310711606	6310721606	6310731606	6310821606	6319481606
	6310618989	6310628989	6310638989	6310718989	6310728989	6310738989	6310828989	6319488989
Factor	1	1.6	2	0.8	1.6	2.1	1.3	2.3

Verification

Registration N°: HAGE-00041-V01.01-EN	Drafting Rules	PEP-PCR-ed3-2015 04 02
	Supplemented by	PSR-0005-ed2-EN-2016 03 29
Verifier accreditation N°: VH03	Information and reference documents: www.pep-ecopassport.org	
Date of issue: 10-2016	Validity period:	5 years
Independent verification of the declaration and data, in compliance with ISO 14025 : 2010		
Internal <input checked="" type="radio"/> External <input type="radio"/>		
The PCR review was conducted by a panel of experts chaired by Philippe Osset (SOLINNEN) <input type="checkbox"/>		
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 declarations »		
		

Nota :

The picture has no contractual value.

All numerical values indicated in this document may vary and depend of many factors such as the tolerance related to materials, the usage and environment conditions of the products, installation characteristics ... , real values for a product in a concrete application may therefore change.

The usage time mentioned in this document is an average duration chosen for the need of the calculations. This value cannot be assimilated to the minimum, average or real life time.

The responsibility of the company, issuing this document, can never be engaged if differences would be noticed between the values given by this document and real ones, whatever the causes and/or consequences would be.