

Product Environmental Profile

Weatherproof modular enclosures Kaedra





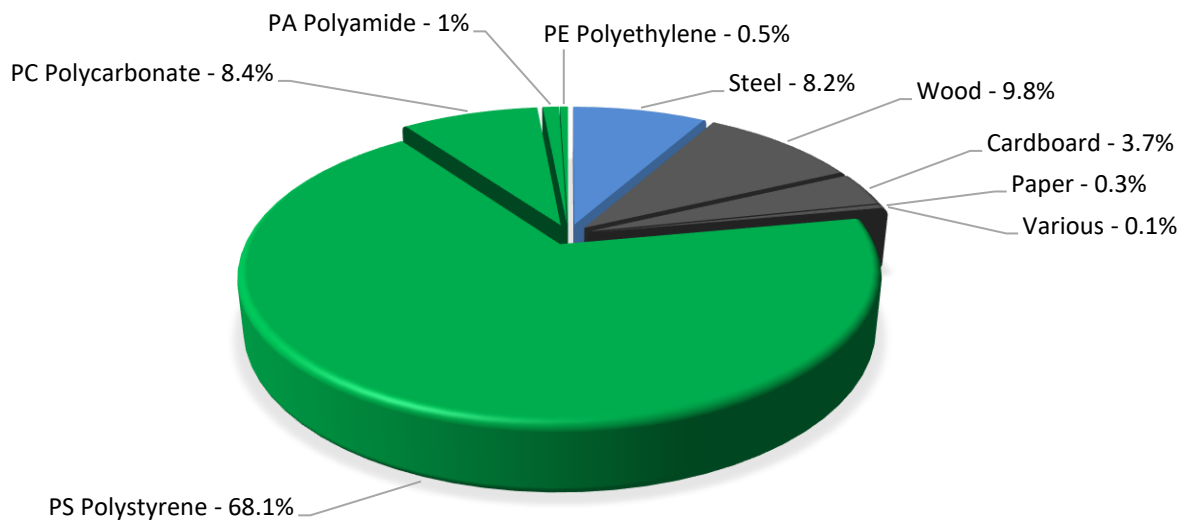
General information

Representative product	Weatherproof modular enclosures Kaedra - 13181
Description of the product	The main purpose of the weatherproof modular enclosures Kaedra is to allow the installation of the modular equipments and also, thanks to the new functionality of the openings, the panel socket-outlets from 16 up 32A or the installation of command and signalling functions through the employment of special functional flanges.
Functional unit	Protect persons during 20 years against direct contact with live parts and allow grouping monitoring, control and protection devices in a single enclosure or a cabinet having the following dimensions 460 mm x 340 mm x 160 mm.



Constituent materials

Reference product mass	3187 g including the product, its packaging and additional elements and accessories
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Plastics	78.0%
Metals	8.1%
Others	13.9%



Substance assessment

Products of this range are designed in conformity with the requirements of the RoHS directive (European Directive 2011/65/EU of 2 January 2013, amended in March 2015, 2015/863/EU and in November 2017, 2017/2102/EU) and do not contain, or only contain in the authorised proportions, lead, mercury, cadmium, hexavalent chromium or flame retardants (polybrominated biphenyls - PBB, polybrominated diphenyl ethers – PBDE), Bis (2-ethylhexyl)phthalate - DEHP, Benzyl butyl phthalate– BBP, Dibutyl phthalate - DBP, Diisobutyl phthalate - DIBP) as mentioned in the Directive.

Details of ROHS and REACH substances information are available on the Schneider-Electric Green Premium website

<http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page>



Additional environmental information

The Weatherproof modular enclosures Kaedra presents the following relevant environmental aspects

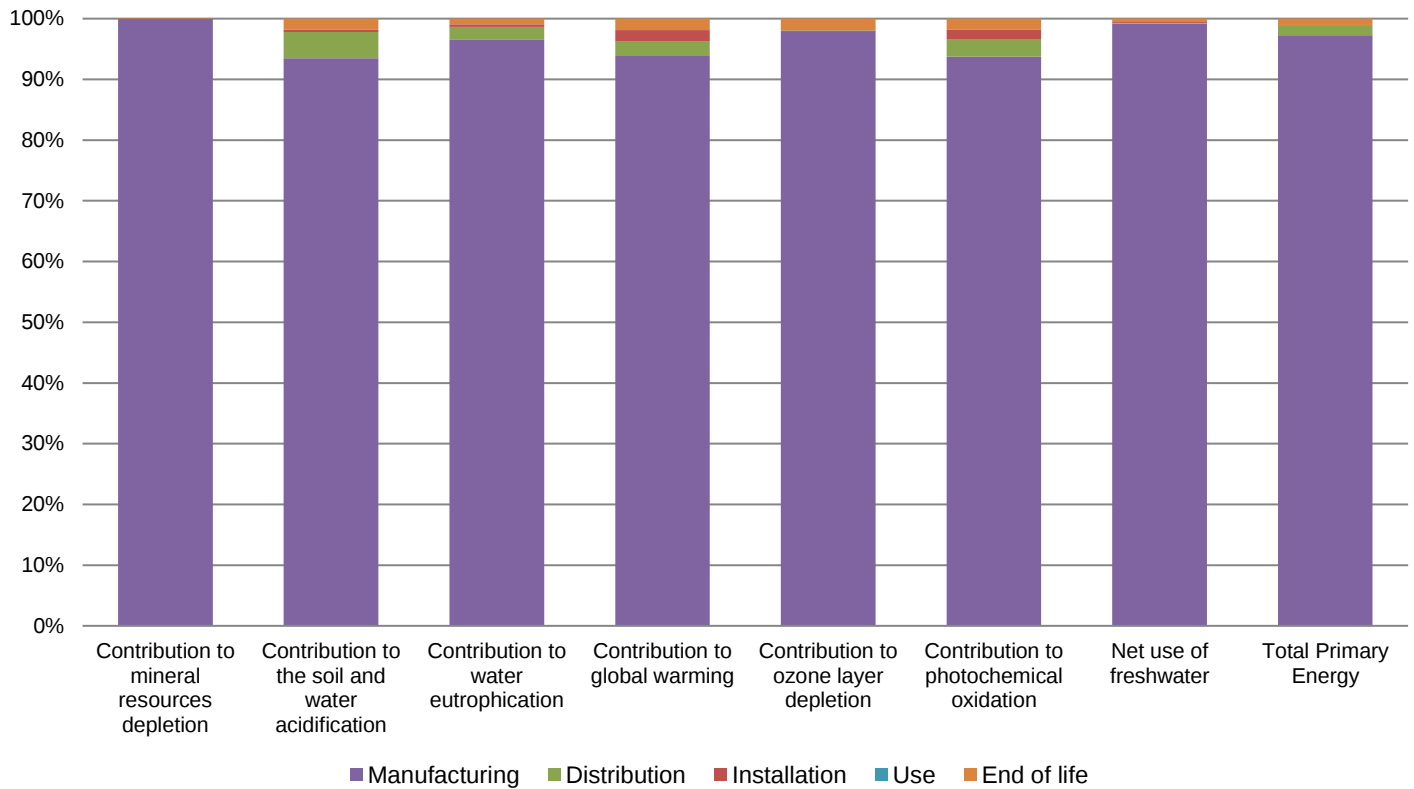
Manufacturing	Manufactured at a Schneider Electric production site ISO14001 certified
Distribution	Weight and volume of the packaging optimized, based on the European Union's packaging directive Packaging weight is 420.8 g, consisting of cardboard (27%), paper (1.7%), wood (71.3%) Product distribution optimised by setting up local distribution centres
Installation	Ref 13181 does not require any installation operations.
Use	The product does not require special maintenance operations.
End of life	End of life optimized to decrease the amount of waste and allow recovery of the product components and materials No special end-of-life treatment required. According to countries' practices this product can enter the usual end-of-life treatment process. Recyclability potential: 84% Based on "ECO'DEEE recyclability and recoverability calculation method" (version V1, 20 Sep. 2008 presented to the French Agency for Environment and Energy Management: ADEME).



Environmental impacts

Reference life time	20 years
Product category	Unequipped enclosures and cabinets
Installation elements	The disposal of the packaging material is accounted for 13.69% during the installation phase.
Use scenario	Non applicable for unequipped enclosures and cabinets
Geographical representativeness	Italy, France, Turkey, China
Technological representativeness	The main purpose of the weatherproof modular enclosures Kaedra is to allow the installation of the modular equipments and also, thanks to the new functionality of the openings, the panel socket-outlets from 16 up 32A or the installation of command and signalling functions through the employment of special functional flanges.

Compulsory indicators		Weatherproof modular enclosures Kaedra - 13181					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	2.23E-04	2.23E-04	0*	0*	0*	0*
Contribution to the soil and water acidification	kg SO ₂ eq	4.37E-02	4.08E-02	1.88E-03	1.91E-04	0*	7.76E-04
Contribution to water eutrophication	kg PO ₄ ³⁻ eq	2.09E-02	2.02E-02	4.32E-04	8.63E-05	0*	1.98E-04
Contribution to global warming	kg CO ₂ eq	1.72E+01	1.61E+01	4.11E-01	3.25E-01	0*	3.23E-01
Contribution to ozone layer depletion	kg CFC11 eq	8.69E-07	8.52E-07	8.33E-10	6.79E-10	0*	1.63E-08
Contribution to photochemical oxidation	kg C ₂ H ₄ eq	4.69E-03	4.40E-03	1.34E-04	7.55E-05	0*	8.28E-05
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m3	5.58E-02	5.53E-02	3.68E-05	8.59E-05	0*	3.28E-04
Total Primary Energy	MJ	3.71E+02	3.61E+02	5.81E+00	4.26E-01	0*	3.86E+00



Optional indicators		Weatherproof modular enclosures Kaedra - 13181					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	2.86E+02	2.77E+02	5.78E+00	3.95E-01	0*	3.10E+00
Contribution to air pollution	m³	1.11E+03	1.06E+03	1.75E+01	7.76E+00	0*	2.75E+01
Contribution to water pollution	m³	1.25E+03	1.15E+03	6.76E+01	4.38E+00	0*	3.10E+01
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	4.45E-02	4.45E-02	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	1.14E+01	1.13E+01	7.75E-03	7.26E-03	0*	4.32E-03
Total use of non-renewable primary energy resources	MJ	3.60E+02	3.50E+02	5.81E+00	4.19E-01	0*	3.85E+00
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	2.80E+00	2.78E+00	7.75E-03	7.26E-03	0*	4.32E-03
Use of renewable primary energy resources used as raw material	MJ	8.56E+00	8.56E+00	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	2.52E+02	2.42E+02	5.81E+00	4.19E-01	0*	3.85E+00
Use of non renewable primary energy resources used as raw material	MJ	1.08E+02	1.08E+02	0*	0*	0*	0*
Use of non renewable secondary fuels	MJ	0.00E+00	0*	0*	0*	0*	0*
Use of renewable secondary fuels	MJ	0.00E+00	0*	0*	0*	0*	0*
Waste categories	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Hazardous waste disposed	kg	2.05E+01	1.74E+01	0*	0*	0*	3.08E+00
Non hazardous waste disposed	kg	1.48E+01	1.46E+01	1.46E-02	2.40E-01	0*	1.19E-02
Radioactive waste disposed	kg	8.55E-03	8.51E-03	1.04E-05	8.48E-06	0*	1.83E-05
Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	2.73E+00	2.83E-01	0*	2.06E-01	0*	2.24E+00
Components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	2.49E-02	0*	0*	0*	0*	2.49E-02
Exported Energy	MJ	4.69E-01	2.82E-01	0*	1.87E-01	0*	0*

* represents less than 0.01% of the total life cycle of the reference flow

Life cycle assessment performed with EIME version EIME v5.8.1, database version 2016-11 in compliance with ISO14044.

The manufacturing phase is the life cycle phase which has the greatest impact on the majority of environmental indicators (based on compulsory indicators).

Please note that the values given above are only valid within the context specified and cannot be used directly to draw up the environmental assessment of an installation.

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Internal	External	X	
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 program.			
Document in compliance with ISO 14025 : 2010 « Environmental labels and declarations. Type III environmental declarations »			



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