

Product Environmental Profile

Resi9 Modular Plastic Enclosure

This range consist of surface-mounted electric modular enclosure from 13 (1-row 13-modules) to 72 (4-rows 18-modules) modules, from 63A to 90A 230/400Vac. The representative product used for the analysis is the 2-rows 13-modules surface mounted Resi9 enclosure (commercial ref. R9H13402). The environmental impacts of this referenced product are representative of the impacts of the other products of the range which are developed with the same technology.





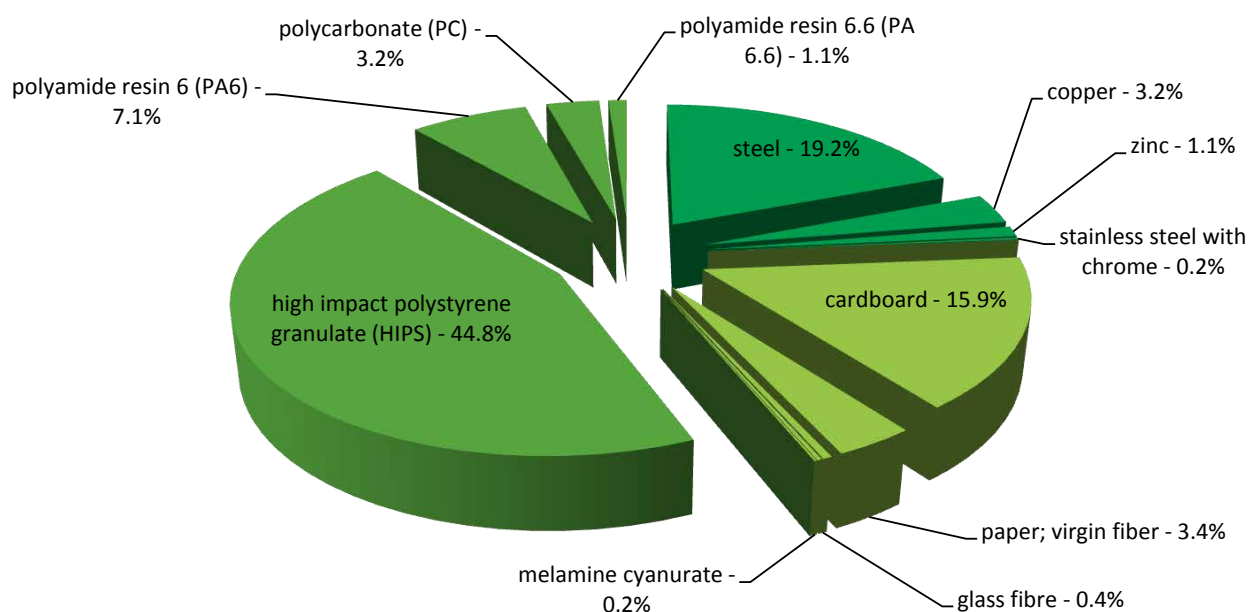
General information

Representative product	Resi9 Modular Plastic Enclosure -R9H13402
Description of the product	Modular Plastic Enclosur. The main function of the Resi9 Modular Enclosure range is to housing electrical devices in order to realise an assembly or an electrical installation. This range consist of surface-mounted modular plastic enclosure from 13 (1-row 13-modules) to 72 (4-rows 18-modules) modules, from 63A to 90A 230/400Vac
Description of the range	<p>This range consist of surface-mounted electric modular enclosure from 13 (1-row 13-modules) to 72 (4-rows 18-modules) modules, from 63A to 90A 230/400Vac. The representative product used for the analysis is the 2-rows 13-modules surface mounted Resi9 enclosure (commercial ref. R9H13402). The environmental impacts of this referenced product are representative of the impacts of the other products of the range which are developed with the same technology.</p> <p>The environmental impacts of this referenced product are representative of the impacts of the other products of the range which are developed with a similar technology.</p>
Functional unit	To house electrical devices for 20 years and a 100% use rate, in accordance with the relevant standards



Constituent materials

Reference product mass	1615 g including the product, its packaging and additional elements and accessories
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Substance assessment

Products of this range are designed in conformity with the requirements of the RoHS directive (European Directive 2011/65/EU of 8 June 2011) 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) as mentioned in the Directive

As the products of the range are designed in accordance with the RoHS Directive (European Directive 2002/95/EC of 27 January 2003), they can be incorporated without any restriction in an assembly or an installation subject to this 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 Resi9 Modular Plastic Enclosure presents the following relevant environmental aspects

Design	Indicate all the eco-design improvements brought to the product at the design phase compared to previous offer range
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 265 g, consisting of cardboard (100%) Product distribution optimised by setting up local distribution centres
Installation	Ref R9H13402 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 This product contains BASE INSUL.TERMINAL BLOCK 7 HOLES (7.121g) that should be separated from the stream of waste so as to optimize end-of-life treatment. Recyclability potential: 73% Based on Eco'DEEE method

Environmental impacts

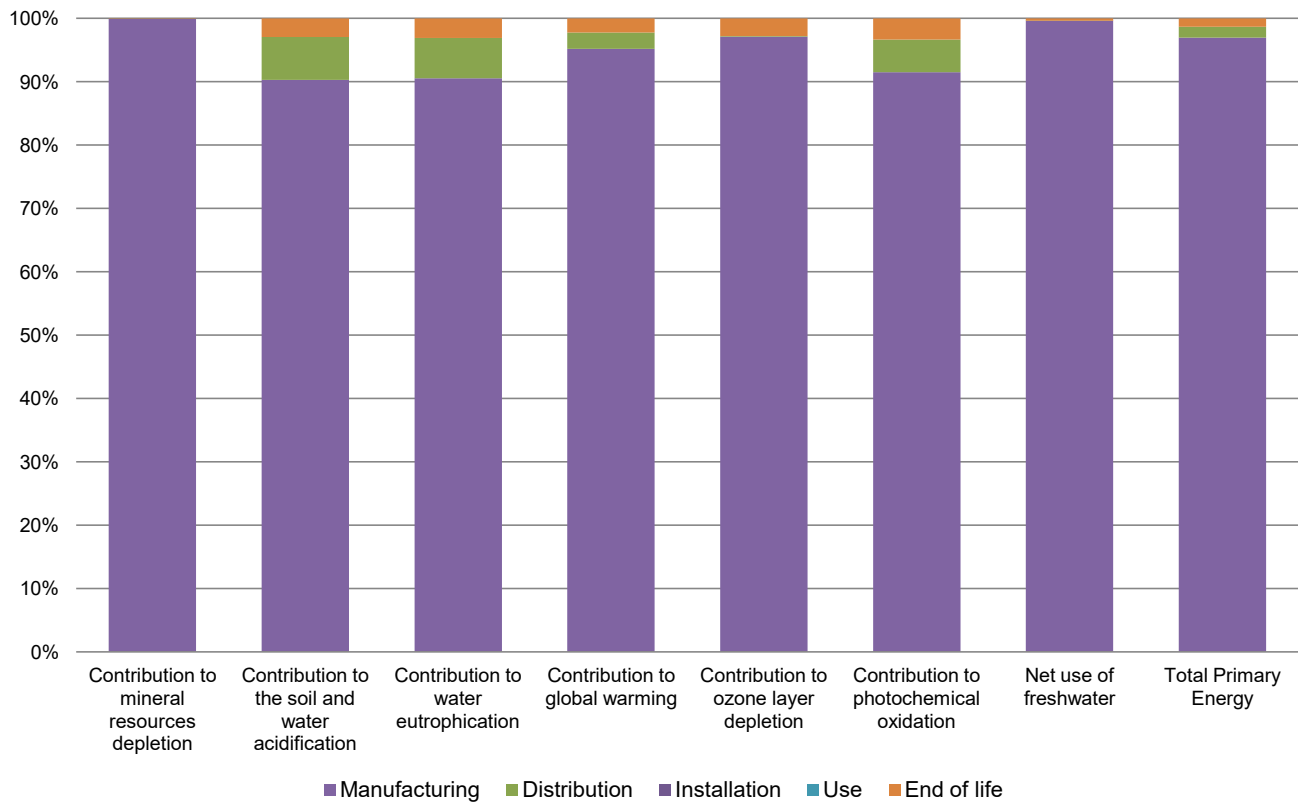
Reference life time	20 years			
Product category	Enclosures			
Installation elements	No special components needed			
Use scenario	This product does not have any energy consumption			
Geographical representativeness	Europe			
Technological representativeness	Modular Plastic Enclosur. The main function of the Resi9 Modular Enclosure range is to housing electrical devices in order to realise an assembly or an electrical installation. This range consist of surface-mounted			
Energy model used	Manufacturing	Installation	Use	End of life
	Energy model used: Italy	0	0	0

Compulsory indicators

Resi9 Modular Plastic Enclosure - R9H13402

Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
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Contribution to mineral resources depletion	kg Sb eq	5,30E-04	5,30E-04	0*	0*	0*	0*
Contribution to the soil and water acidification	kg SO ₂ eq	1,41E-02	1,27E-02	9,51E-04	0*	0*	4,12E-04
Contribution to water eutrophication	kg PO ₄ ³⁻ eq	3,45E-03	3,13E-03	2,19E-04	0*	0*	1,07E-04
Contribution to global warming	kg CO ₂ eq	8,06E+00	7,67E+00	2,08E-01	0*	0*	1,79E-01
Contribution to ozone layer depletion	kg CFC11 eq	3,21E-07	3,12E-07	4,22E-10	0*	0*	8,91E-09
Contribution to photochemical oxidation	kg C ₂ H ₄ eq	1,31E-03	1,20E-03	6,79E-05	0*	0*	4,37E-05
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m3	5,33E-02	5,31E-02	1,86E-05	0*	0*	1,76E-04
Total Primary Energy	MJ	1,70E+02	1,65E+02	2,95E+00	0*	0*	2,26E+00



Optional indicators		Resi9 Modular Plastic Enclosure - R9H13402					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	1,31E+02	1,26E+02	2,93E+00	0*	0*	1,86E+00

Contribution to air pollution	m ³	1,28E+03	1,26E+03	8,86E+00	0*	0*	1,46E+01
Contribution to water pollution	m ³	5,87E+02	5,37E+02	3,43E+01	0*	0*	1,66E+01
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	1,18E-02	1,18E-02	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	7,18E+00	7,18E+00	3,93E-03	0*	0*	2,27E-03
Total use of non-renewable primary energy resources	MJ	1,63E+02	1,58E+02	2,94E+00	0*	0*	2,26E+00
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	7,15E-01	7,09E-01	3,93E-03	0*	0*	2,27E-03
Use of renewable primary energy resources used as raw material	MJ	6,47E+00	6,47E+00	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	1,21E+02	1,15E+02	2,94E+00	0*	0*	2,26E+00
Use of non renewable primary energy resources used as raw material	MJ	4,26E+01	4,26E+01	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	4,40E+01	4,22E+01	0*	0*	0*	1,78E+00
Non hazardous waste disposed	kg	1,29E+00	1,28E+00	7,40E-03	0*	0*	6,27E-03
Radioactive waste disposed	kg	5,81E-04	5,66E-04	5,27E-06	0*	0*	9,74E-06
Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	1,08E+00	5,35E-02	0*	0*	0*	1,02E+00
Components for reuse	kg	0,00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	1,62E-02	2,38E-04	0*	0*	0*	1,60E-02
Exported Energy	MJ	0,00E+00	0*	0*	0*	0*	0*

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


Life cycle assessment performed with EIME version EIME v5.5, database version 2015-04.

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

According to this environmental analysis, proportionality rules may be used to evaluate the impacts of other products of this range.

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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Verifier accreditation N°	VH08	Supplemented by	PSR-0005-ed1-EN -2012 12 11

<i>Date of issue</i>	05-2016	<i>Information and reference documents</i>	www.pep-ecopassport.org
		<i>Validity period</i>	5 years
<i>Independent verification of the declaration and data, in compliance with ISO 14025 : 2010</i>			
Internal	External X		
<i>The PCR review was conducted by a panel of experts chaired by Philippe Osset (SOLINNEN)</i>			
<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>			
			

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