

# Product Environmental Profile

## Exxact Surface Box 1-G Low IP44



**Schneider**  
Electric



## General information

### Representative product

Exxact Surface Box 1-G Low IP44 - WDE002451

### Description of the product

The Exxact Surface Mounted Box products offers standard to high-end surface mounting for all kind of installations and environmental protections (IP20 or IP44) With below examples.

- Wiring devices – Switches, Socket-outlets, Surface boxes etc
- Network connectivity – LexCom, Keystone, Telephone outlets
- Lighting control – Dimmers, Movement detectors, wireless
- Safety and security – Timers, Socket-Outlets with integrated features
- Energy efficiency – KNX, Movement detectors, Thermostats
- Hotels & Hospitals – Key-card switch, illuminated info signs, Call-system

### Functional unit

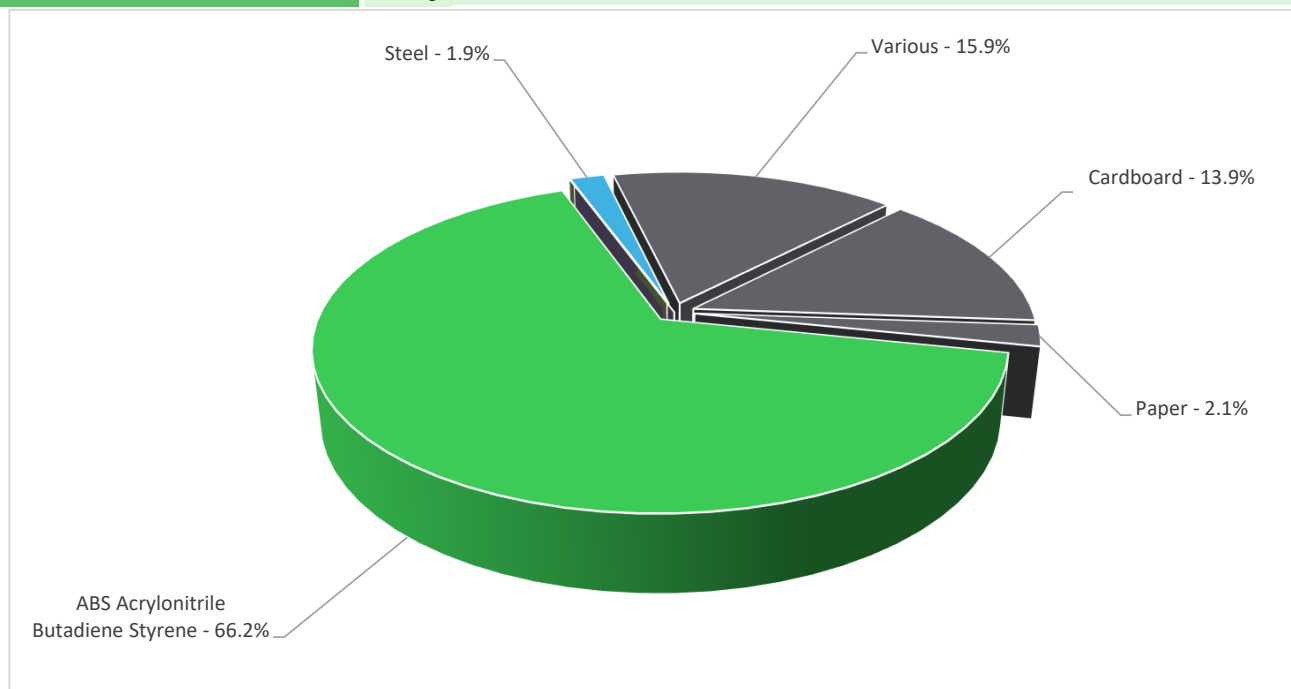
Protect persons during 20 years against direct contact with live parts and allow grouping monitoring, control and protection of devices in a single enclosure having the following dimensions 85mm x 85mm x 25mm while protecting against the penetration of solid objects and liquids (IP44) with the Environment Standards IEC 60884-1 & EN 60670-1.



## Constituent materials

### Reference product mass

57.73 g including the product, its packaging and additional elements and accessories



Plastics	66.2%
Metals	1.9%
Others	31.9%

## 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

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

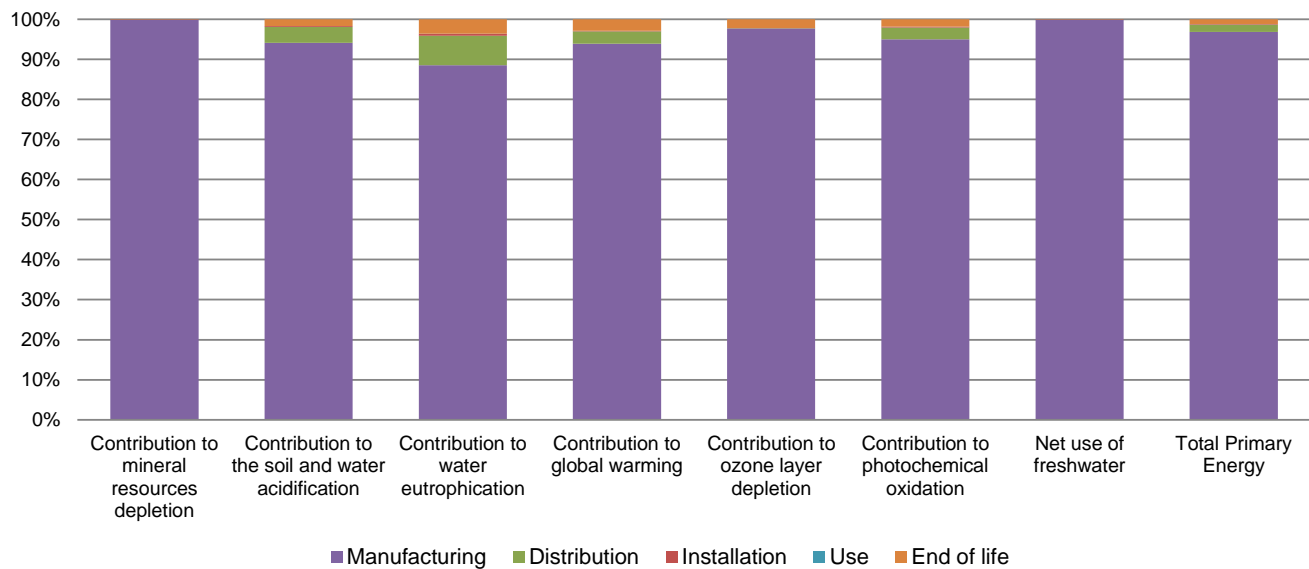
The Exxact Surface Box 1-G Low IP44 presents the following relevant environmental aspects

<b>Manufacturing</b>	Manufactured at a Schneider Electric production site ISO14001 certified
<b>Distribution</b>	Weight and volume of the packaging optimized, based on the European Union's packaging directive Packaging weight is 9 g, consisting of Cardboard (87%) & Paper (13%) Product distribution optimised by setting up local distribution centres
<b>Installation</b>	The product does not require special installation procedure and requires little to no energy to install. The disposal of the packaging materials are accounted for during the installation phase (including transport to disposal).
<b>Use</b>	The product does not require special maintenance operations.
<b>End of life</b>	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: <b>60%</b> 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

<b>Reference life time</b>	20 years			
<b>Product category</b>	Unequipped enclosures and cabinets			
<b>Installation elements</b>	No special components needed			
<b>Use scenario</b>	Non applicable for unequipped enclosures and cabinets			
<b>Geographical representativeness</b>	Europe			
<b>Technological representativeness</b>	The Modules of Technologies such as material production, manufacturing process and transport technology used in this PEP analysis (LCA-EIME in this case) are Similar and representative of the actual type of technologies used to make the product in production.			
<b>Energy model used</b>	<b>Manufacturing</b>	<b>Installation</b>	<b>Use</b>	<b>End of life</b>
	Manufacturing Plant: Elda, Poland	Electricity grid mix; AC; consumption mix, at consumer; < 1kV; EU-27	Electricity grid mix; AC; consumption mix, at consumer; < 1kV; EU-27	Electricity grid mix; AC; consumption mix, at consumer; < 1kV; EU-27

Compulsory indicators		Exxact Surface Box 1-G Low IP44 - WDE002451					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	1.60E-06	1.59E-06	2.98E-10	0*	0*	0*
Contribution to the soil and water acidification	kg SO <sub>2</sub> eq	8.53E-04	8.03E-04	3.40E-05	2.04E-06	0*	1.42E-05
Contribution to water eutrophication	kg PO <sub>4</sub> <sup>3-</sup> eq	1.07E-04	9.44E-05	7.83E-06	4.96E-07	0*	3.85E-06
Contribution to global warming	kg CO <sub>2</sub> eq	2.45E-01	2.30E-01	7.45E-03	4.89E-04	0*	6.96E-03
Contribution to ozone layer depletion	kg CFC11 eq	1.45E-08	1.42E-08	1.51E-11	0*	0*	3.15E-10
Contribution to photochemical oxidation	kg C <sub>2</sub> H <sub>4</sub> eq	8.10E-05	7.70E-05	2.43E-06	1.52E-07	0*	1.49E-06
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m3	3.40E-02	3.40E-02	0*	0*	0*	6.31E-06
Total Primary Energy	MJ	5.77E+00	5.59E+00	1.05E-01	6.39E-03	0*	6.96E-02



Optional indicators		Exxact Surface Box 1-G Low IP44 - WDE002451					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	4.80E+00	4.63E+00	1.05E-01	6.34E-03	0*	5.59E-02
Contribution to air pollution	m <sup>3</sup>	1.21E+01	1.13E+01	3.17E-01	1.95E-02	0*	5.01E-01
Contribution to water pollution	m <sup>3</sup>	7.54E+01	7.35E+01	1.22E+00	7.42E-02	0*	5.91E-01
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	5.19E-05	5.19E-05	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	3.17E-01	3.17E-01	1.40E-04	0*	0*	7.74E-05
Total use of non-renewable primary energy resources	MJ	5.45E+00	5.27E+00	1.05E-01	6.38E-03	0*	6.95E-02
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	1.41E-01	1.41E-01	1.40E-04	0*	0*	7.74E-05
Use of renewable primary energy resources used as raw material	MJ	1.76E-01	1.76E-01	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	3.33E+00	3.15E+00	1.05E-01	6.38E-03	0*	6.95E-02
Use of non renewable primary energy resources used as raw material	MJ	2.12E+00	2.12E+00	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	1.84E-01	1.18E-01	0*	0*	0*	6.66E-02
Non hazardous waste disposed	kg	2.39E-01	2.38E-01	2.65E-04	6.64E-05	0*	2.14E-04
Radioactive waste disposed	kg	1.82E-04	1.81E-04	1.88E-07	0*	0*	3.35E-07
Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	4.17E-02	3.92E-03	0*	9.00E-03	0*	2.88E-02
Components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	8.25E-04	0*	0*	0*	0*	8.25E-04
Exported Energy	MJ	2.86E-05	2.69E-06	0*	2.59E-05	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.

Registration number	ENVPEP101010_V1-EN	Drafting rules	PCR-ed3-EN-2015 04 02
Date of issue	08/2020	Supplemented by	PSR-0005-ed2-EN-2016 03 29
Validity period	5 years	Information and reference documents	<a href="http://www.pep-ecopassport.org">www.pep-ecopassport.org</a>
Independent verification of the declaration and data			
Internal	X	External	
The elements of the present PEP cannot be compared with elements from another program.			
Document in compliance with ISO 14021:2016 « Environmental labels and declarations - Self-declared environmental claims (Type II environmental labelling) »			

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