128 av. du Maréchal-de-Lattre-de-Tassigny
87045 Limoges Cedex France
Tel. +33 (0) 5 55 06 87 87
Fax. + 33 (0) 5 55 06 88 88

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Product Environmental Profile

Atlantic stainless steel industrial boxes

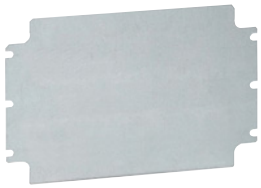
LEGRAND'S ENVIRONMENTAL COMMITMENTS

• Incorporate environmental management into our industrial sites
Of all Legrand sites worldwide, over 80% are ISO 14001-certified
(sites belonging to the Group for more than five years)..

• Involve the environment in product design
Provide our customers with all relevant information (composition, consumption, end of life, etc.).
Reduce the environmental impact of products over their whole life cycle..

• Offer our customers environmentally friendly solutions
Develop innovative solutions to help our customers design more energy efficient, better managed and more environmentally friendly installations.

REFERENCE PRODUCT

Fonction	Integrating and allow attachment of an electrical device (1 stainless steel box), IP 66 - IK 10 according to IEC EN 60529, according to IEC EN 60529, with 1 plain plate 150X150 mm and 1 rail 150 - L. 130mm of depth 7,5 mm, over a lifetime of 20 years
Reference Product	  
	Catalogue Numbers 035650 + 035660 + 036790
	Atlantic stainless industrial box 150X150X80 mm - IP 66 - IK 10 + 1 plain plate + 1 rail

The company reserves the right to change specifications and designs without notice. All illustrations, descriptions, dimensions and weights in the document are for guidance and cannot be held binding on the company

PRODUCTS CONCERNED

The environmental data for the reference product refers to the following Catalogue Numbers:

Références
Atlantic stainless industrial boxes : 035650, 035651, 035652, 035653, 035654, 035655, 035656 Plain mounting plates : 035660, 035662, 035665, 035666 Rails of depth 7,5 mm : 036790, 036791, 036792, 036793

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PEP ecopassport®

CONSTITUENT MATERIALS

This Reference Product contains no substances prohibited by the regulations applicable at the time of its introduction to the market. It does not contain substances covered by the RoHS Directive (2002/95/EC and its revision 2011/65/EC). It contains none of the 138 candidate substances of the candidate list of the REACH regulation dated 19/12/2012.

Total weight of Reference Product	1126 g (with unit packaging)

Plastics as % of weight		Metals as % of weight		Other as % of weight	
PET	5.1%	Steel	81.0%		
PA	2.8%	Copper alloys	3.2%		
PU	2.3%				
				Packaging as % of weight	
				Paper	5.3%
				PE	0.3%
Total plastics	10.2%	Total metals	84.2%	Total other and packaging	5.6%

Estimated recycled material content: 40% by mass.

MANUFACTURE

This Reference Product comes from a site that have received ISO14001 certification..

DISTRIBUTION

Products are distributed from logistics centres located with a view to optimize transport efficiency.
The Reference Product is therefore transported over an average distance of 780 km by road from our warehouse to the local point of distribution into the market Europe.

Packaging is compliant: European directive 2004/12/EC concerning packaging and packaging waste.

At the packaging end of life, its theoretical recycling potential is of 95% (in % of the mass of the packaging)

INSTALLATION

Installation components not delivered with the product are not taken into account.

USE

Servicing and maintenance:
Under normal conditions of use, this type of Product requires no servicing or maintenance

Consumable
No consumables are necessary to use the Reference Product

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END OF LIFE

Product end of life management is integrated into product design by the development teams. The dismantling and sorting of components or materials is made as easy as possible with a view to recycling or failing that, another form of reuse.

• Recyclability rate

Calculated using the method described in the IEC/TR 62635 technical report, the recyclability rate of the product is estimated as 97%. This value is based on data collected from a technological channel using industrial procedures. It does not pre-validate the effective use of this channel for end-of-life electrical and electronic products.

Separated into:

- Plastic materials (excluding packaging) : 8%
- Metal materials (excluding packaging) : 84%
- Other materials (excluding packaging) : 0%
- Packaging (all types of materials) : 5%

ENVIRONMENTAL IMPACTS

The evaluation of environmental impacts examines the stages of the reference product life cycle: manufacturing, distribution, installation, use, and end of life. It is representative from products marketed and used in Europe,in compliance with the local current standards

The following modelling elements were taken into account:

Manufacture	Unit packaging taken in account. As required by the "PEP ecopassport" programme all transports for the manufacturing of the Reference Product, including materials and components, has been taken in account.
Distribution	Transport between the last Group distribution centre and an average delivery to the sales area
Installation	Installation components not delivered with the product are not taken into account.
Use	• Under normal conditions of use, this type of Product requires no servicing or maintenance • No consumables are necessary to use the Reference Product • Product category : envelope • Use scenario : no energy consumption during the 20 years working life. This modelling duration does not constitute a minimum durabilty requirement.
End of life	In view of the data avalaible on the date of creation of the document, and in accordance with the requirements of the PCR of the «PEP ecopassport» programme, transport of the Reference Product by road only once, over a distance of 1000 km, to a processing site at end of life was counted.
Software used	EIME V5 and its database "Legrand-2012-10-31 version 3" made from the database "CODDE-2012-07"

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ENVIRONMENTAL IMPACTS (continued)

		Total for Life cycle		Raw material and manufacture		Distribution		Installation		Use		End of life	
Mandatory indicators	Contribution to greenhouse effect	4.19E+03	g~CO2 eq.	4.03E+03	96%	1.04E+02	2%	0.00E+00	0%	0.00E+00	0%	5.62E+01	1%
	Damage to the ozone layer	1.05E-03	g~CFC-11 eq.	9.74E-04	93%	7.34E-05	7%	0.00E+00	0%	0.00E+00	0%	1.07E-07	< 1%
	Eutrophisation of water	3.48E-01	g~PO43- eq.	3.46E-01	99%	1.72E-03	< 1%	0.00E+00	0%	0.00E+00	0%	1.04E-04	< 1%
	Photochemical ozone formation	1.42E+00	g~C2H4 eq.	1.32E+00	93%	9.00E-02	6%	0.00E+00	0%	0.00E+00	0%	1.25E-02	< 1%
	Acidification of the air	7.08E-01	g~H+ eq.	6.84E-01	97%	1.32E-02	2%	0.00E+00	0%	0.00E+00	0%	1.04E-02	1%
	Total energy consumed	6.88E+01	MJ	6.67E+01	97%	1.31E+00	2%	0.00E+00	0%	0.00E+00	0%	7.92E-01	1%
	Consumption of water	5.19E+01	dm3	5.18E+01	100%	1.24E-01	< 1%	0.00E+00	0%	0.00E+00	0%	5.84E-03	< 1%
Optional indicators	Depletion of natural resources	1.63E-15	year -1	1.63E-15	100%	1.79E-18	< 1%	0.00E+00	0%	0.00E+00	0%	1.15E-18	< 1%
	Toxicity of the air	1.17E+06	m3	1.14E+06	97%	1.95E+04	2%	0.00E+00	0%	0.00E+00	0%	1.55E+04	1%
	Toxicity of the water	8.64E-01	m3	8.26E-01	96%	1.45E-02	2%	0.00E+00	0%	0.00E+00	0%	2.40E-02	3%
	Production of hazardous waste	4.11E-02	kg	4.10E-02	100%	3.86E-05	< 1%	0.00E+00	0%	0.00E+00	0%	6.96E-08	< 1%

The environmental impacts of the Reference Product are representative of the products covered by the PEP, which therefore constitute a homgeneous environmental family.

To determine the environmental impact of a product covered by the PEP other than the cat. number, the following rules apply :
Installation and Use phases : impact is zero
Manufacturing, Distribution and End of life phases are proportional to the mass of the product.

The values of these impacts are valid for the context specified in this document. They must not be used directly to draw up the environmental balance sheet for the installation.

Registration number: LGRP-2014-099-v1-en	Drafting rule: PEP-PCR-ed 2.1-FR-2012 12 11 PSR-0005-ed1-FR-2012 12 11
Authorisation number of checker: VH02	Programme information: www.pep-ecopassport.org
Date of issue: 03-2015	Validity period: 4 years
Independent verification of the declaration and data, in accordance with ISO 14025:2006 Internal ☒ External ☐	
In accordance with ISO 14025 :2006 Type III environmental declaration	
The critical review of the PCR was conducted by a panel of experts chaired by J.Chevalier (CSTB)	
The elements of the present PEP cannot be compared with elements from another programme	