Legrand North and Central America
Wiremold
60 Woodlawn Street
West Hartford, CT 06110
1.877.BY.LEGRAND (295.3472)
www.legrand.us

Product Environmental Profile

EXTERIOR LOW VOLTAGE GROUND BOX

COMPANY OVERVIEW

• Sustainability built in to support our associates, customers, and the environment
At Legrand North and Central America, we're committed to leading by example within our own operations, to developing high quality solutions for our customers' High Performance Buildings, and to transforming how people live and work – more safely, more comfortably, more efficiently.

• Better Performance
A core principle of designing for sustainability drives us to innovate products and systems that enable buildings to reach exceptional levels of performance, bringing about industry-leading ideas, inventions and initiatives.

• Better Operations
A commitment to a leadership role in operational excellence through environmental management, optimizing the way we manage energy, water and waste.

• Better Lives
A dedication to enhancing employee and community welfare through programs that help people enjoy healthier, more productive and more rewarding lives.

For more information on Legrand's PEPs and other sustainability initiatives, visit https://www.legrand.us/aboutus/sustainability.aspx.

LEGRAND'S ENVIRONMENTAL COMMITMENTS

• Incorporate environmental management into our industrial sites
Of all Legrand sites worldwide, over 85% are ISO 14001 certified (sites belonging to Legrand for more than five years).

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

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

REFERENCE PRODUCT

Function	Connect an outdoor workstation to the energy and communication networks for 20 years via 12 communication ports or 8 A/V connectivity ports.	
Reference Product		
	Part Number: XB814CLVGY	Part number: XB814
	EXTERIOR LOW VOLTAGE GROUND BOX, GRAY	

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.

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PRODUCTS CONCERNED

The environmental data is representative of the following products:

- XB814CLVXX

With XX= BK, BN, GY

CONSTITUENT MATERIALS

This Reference Product contains no substances prohibited by the regulations applicable at the time of its introduction to the market.

It respects the restrictions on use of hazardous substances as defined in the RoHS directive 2011/65/EC and does not contain, as far as we know, any substance on the candidate list at the time the PEP was published for authorization of the REACH regulation (EC) no. 1907/2006 with a concentration above 0.1% w/w.

Total weight of Reference Product with unit packaging	**213.7 oz (6059.3 g)**

Plastics as % of weight		**Metals as % of weight**		**Others as % of weight**	
Product					
PPE	**65%**	Aluminium	**6.8%**		
ABS	**9.0%**	Steel	**4.0%**		
PA	**1.4%**	Others	**0.5%**		
PVC	**0.8%**	Copper alloys	**<0.1%**		
Others	**<0.1%**				
PE	**<0.1%**				
Packaging					
PE	**0.4%**			Paper	**11.8%**
PP	**<0.1%**				
Total plastics	**76.8%**	**Total metals**	**11.4%**	**Total others**	**11.8%**

Estimated recycled material content: 11% of weight.

MANUFACTURING

The Reference Product comes from a site that has received ISO 14001 certification.

DISTRIBUTION

Products are distributed from logistics centers located to optimize transport efficiency. Information on the distance of distribution is not available so the PCR hypothesis for Intracontinental transport, 2175 miles (3500 km) by heavy truck, was used. This represents transportation of the Reference Product from our warehouse to the local point of distribution in the North America market.

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INSTALLATION

For the installation of the product, only standard tools are needed.

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 this type of product.

END OF LIFE

• Hazardous waste* contained in the product: no hazardous waste
(*) Hazardous waste as defined by European Commission decision 2000/532/EC.

• Recycling rate:
Calculated using the method described in the IEC/TR 62635 technical report, the recyclability rate of the Reference Product without packaging is estimated as 25%. 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:	(% mass of Reference Product excluding packaging)
- plastic materials:	12%
- metal materials:	13%
Recycling rate of packaging (all types of material):	96%

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 of products marketed and used in North America.

The following modelling elements were taken into account:

Manufacturing	Packaging taken into account. As required by the PEP ecopassport program, all transport for the manufacturing of the Reference Product, including materials and components, has been taken into account. The waste generated during manufacturing phase has been taken into account.
Distribution	Transport between the last distribution center and an average delivery to the sales area. The default scenario modelled maximizes the environmental impact using the PCR hypothesis for Intracontinental transport : 2175 miles (3500 km) by heavy truck.
Installation	Transport of packaging for the end of life treatment is taken into account at this phase.
Use	• Under normal conditions of use, this type of product requires no servicing or maintenance. • No consumables are necessary to use this type of product. • Product category: Non-equipped service poles, service posts and multi-outlet extensions. • Use scenario: No energy consumption during the 20 year working life. We consider a 20 year use phase duration per the guidance for non-equipped service poles, service posts and multi-outlet extensions. in PSR-0003. This modelling duration does not constitute a minimum durabilty requirement. • Energy model: Electricity Mix (US) - 2009
End of life	The default end of life scenario modelled maximizing the environmental impact using the PCR hypothesis for Local transport : 621miles (1000 km) by heavy truck and landfilling
Software used	EIME V5 and its database "CODDE-2018-11" and the indicators defined in the PCR ed 3 in alignment with the EN15804 standard

ENVIRONMENTAL IMPACTS (continued)

	Total for Life cycle		Raw material and manufacturing		Distribution		Installation		Use		End of life	
Global warming (GWP)	**4.96E+01**	**kg CO_2 eq.**	4.79E+01	**97%**	1.06E+00	**2%**	4.76E-02	**< 1%**	0.00E+00	**0%**	6.00E-01	**1%**
Ozone depletion (ODP)	**5.99E-06**	**kg CFC-11 eq.**	5.97E-06	**100%**	2.14E-09	**< 1%**	3.86E-10	**< 1%**	0.00E+00	**0%**	1.45E-08	**< 1%**
Acidification of soil and water (A)	**1.07E-01**	**kg SO_2 eq.**	9.93E-02	**93%**	4.74E-03	**4%**	2.30E-04	**< 1%**	0.00E+00	**0%**	2.30E-03	**2%**
Water eutrophication (EP)	**2.15E-02**	**kg PO_4^{3-} eq.**	1.75E-02	**81%**	1.09E-03	**5%**	2.49E-04	**1%**	0.00E+00	**0%**	2.73E-03	**13%**
Photochemical ozone creation (POCP)	**1.07E-02**	**kg C_2H_4 eq.**	1.01E-02	**95%**	3.37E-04	**3%**	1.63E-05	**< 1%**	0.00E+00	**0%**	1.79E-04	**2%**
Depletion of abiotic resources - elements (ADPe)	**1.46E-04**	**kg Sb eq.**	1.46E-04	**100%**	4.22E-08	**< 1%**	2.14E-09	**< 1%**	0.00E+00	**0%**	3.77E-08	**< 1%**
Total use of primary energy (PE)	**5.94E+02**	**MJ**	5.72E+02	**96%**	1.49E+01	**3%**	6.45E-01	**< 1%**	0.00E+00	**0%**	6.62E+00	**1%**
Net use of fresh water (FW)	**3.62E+00**	**m^3**	3.62E+00	**100%**	9.45E-05	**< 1%**	1.67E-05	**< 1%**	0.00E+00	**0%**	5.01E-04	**< 1%**
Depletion of abiotic resources – fossil fuels (ADPf)	**4.62E+02**	**MJ**	4.40E+02	**95%**	1.48E+01	**3%**	6.24E-01	**< 1%**	0.00E+00	**0%**	5.95E+00	**1%**
Water pollution (WP)	**4.09E+03**	**m^3**	3.84E+03	**94%**	1.74E+02	**4%**	7.23E+00	**< 1%**	0.00E+00	**0%**	6.91E+01	**2%**
Air pollution (AP)	**3.98E+03**	**m^3**	3.86E+03	**97%**	4.33E+01	**1%**	5.99E+00	**< 1%**	0.00E+00	**0%**	6.84E+01	**2%**

The values of the 27 impacts defined in the PCR-ed3-EN-2015 04 02 are available in the digital database of pep-ecopassport.org website. The environmental impacts of the Reference Product are representative of the products covered by the PEP, which therefore constitute a homogeneous environmental family.

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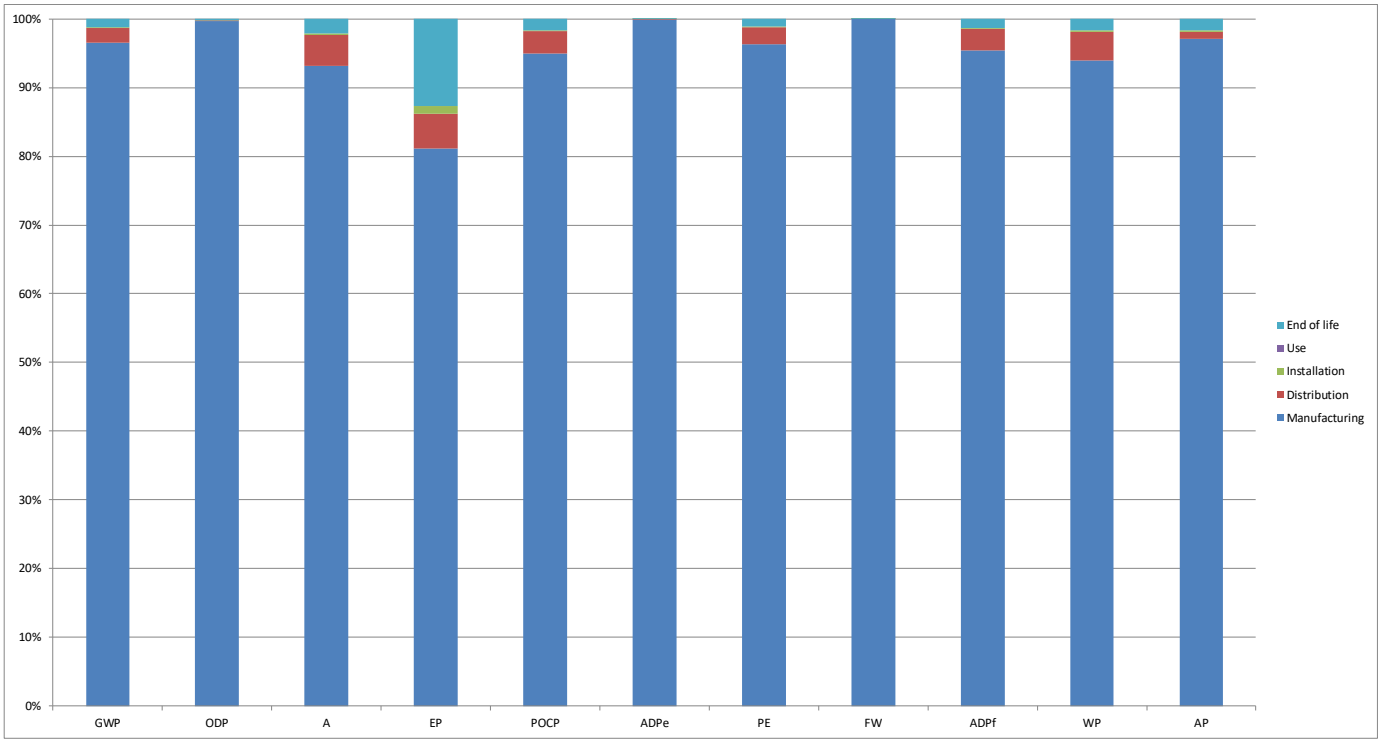
ENVIRONMENTAL IMPACTS (continued)

% ENVIRONMENTAL IMPACT PER LIFE CYCLE STAGE OF REFERENCE PRODUCT



The environmental impact of the Reference Product occurs predominantly during the 'Manufacturing' phase.

The environmental impacts for the other products concerned by this PEP (XB814CLVXX) take the same values as for the reference product (XB814CLVGY).

Registration number: LGRP-01027-V01.01-EN	Drafting rules: "PCR-ed3-EN-2015 04" Supplemented by "PSR-0003-ed1.1-2015 10 16"
Verifier's accreditation number: VH34	Information and reference documents: **www.pep-ecopassport.org**
Date of issue: 08-2019	Validity period: 5 years
Independent verification of the declaration and data, in compliance with ISO 14025:2010 Internal ☒ External ☐	
The PCR Review was conducted by a panel of experts chaired by Philippe Osset (SOLINNEN).	
PEP are compliant with XP C08-100-1: 2014 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"	
In compliance with ISO 14040:2006: "Environmental management – LCA – Principles and framework" In compliance with ISO 14044:2006: "Environmental management – LCA – Requirements and guidelines" In alignment with EN 15804:2012+A1:2013: "Sustainability of construction works - EPD's - Core rules for the product category of construction products"	