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Product Environmental Profile

Arteor[™] 2 P+E China + 2P EU/US 10 A Socket Outlet - 1 Gang





■ 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 ■

Function			rds GB2099.1-2008, with a non-continuous ed load, with rated load not exceeding 10 A.			
Reference Product						
	Cat. No 5 726 31 - Mechanism	Cat. No 5 783 00 - Frame	Cat. No 5 778 30 - Cover plate			
	2 P+E China + 2P EU/US 10 A socket outlet - 1 Gang - Magnesium with a Gold Brass plate					

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 are representative of the following products:

Catalogue Number (mechanism)	Catalogue Number (Frame)	Catalogue Number (Cover plate)
• 5 726 31	• 5 783 00	• 5 778 30
		• 5 768 36
		• 5 778 37
		• 5 778 36
		• 5 778 35
		• 5 768 33
		• 5 768 34
		• 5 778 32
		• 5 778 31
		• 5 768 35
		• 5 778 39



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■ 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 substances in the candidate list of the REACH regulation dated 19/12/2012.

Total weight of	
Reference Product	194 g (with unit packaging)

Plastics as % of weight		Metals as % of weight		Packaging as % of weight	
PC	21.3 %	Steel	47.3 %	Paper	16.3 %
PA	5.5 %	Copper alloys	4.8 %	PP	0.7 %
ABS	2.3 %	Other metal	0.1 %		
PET	1.5 %				
Other plastic	0.2 %				
Total plastics	30.8 %	Total metals	52.2 %	Total others (packaging)	17.0 %

Estimated recycled material content: 37 % of weight.

For the plate finishes Mirror / Casual / Wood the following material sheet have to be applied:

Plastics as % of weight		Metals as % of weight		Packaging as % of weight	
PC	23.8 %	Zamak	21.6 %	Paper	17.4 %
PA	5.8 %	Steel	20.6 %	PP	0.8 %
Other plastic	3.0 %	Copper alloys	5.2 %		
PET	1.6 %	Other metal	0.2 %		
Total plastics	34.2 %	Total metals	47.6 %	Total others (packaging)	18.2 %

Estimated recycled material content: 37 % of weight.



MANUFACTURE

This Reference Product comes from sites that has 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 1688 km, by road from our warehouse to the local point of distribution into the market in China.

Packaging is compliant with applicable regulation. At the packaging end of life, its recycliability rate is of 100 % (in % of packaging weight).



INSTALLATION 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 this type of product.



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■ END OF LIFE ■

Development teams integrate product end-of-life factors in the design phase. 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 technical report IEC/TR 62635, the recyclability rate of the product is estimated at 98 %. This value is based on data collected from a technological channel operating on an industrial basis. It does not prejudge the effective use of the channel for electrical and electronic products at the end of their life.

- plastic materials (excluding packaging): 29 %
- metal materials (excluding packaging): 52 %
- packaging (all types of materials): 17 %



■ 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 China.

The following modelling elements were taken into account:

Manufacture	Unit packaging taken into account. As required by the «PEP ecopassport» programme all transport 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 this type of product Product category: passive product. Use scenario: non-continuous operation for 20 years at 30 % of rated load, during 30 % of the time. This modelling duration does not constitute a minimum durability requirement. Electricity China - 2009.
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 data base «CODDE-2012-07».



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■ ENVIRONMENTAL IMPACTS (continued)

		Total fo	or Life cycle	Raw materia manufac	land	Distribu	ıtion	Installa	tion	Use		End of	life
	Global warming	6.53E+03	g~CO ₂ eq.	1.08E+03	1 7 %	3.87E+01	< 1%	0.00E+00	0%	5.40E+03	83%	9.69E+00	< 1%
	Ozone depletion	5.98E-04	g~CFC-11 eq.	5.28E-04	88%	2.73E-05	5%	0.00E+00	0%	4.29E-05	7 %	1.84E-08	< 1%
icators	Water eutrophication	1.48E-01	g~PO₄³-eq.	1.37E-01	92%	6.43E-04	< 1%	0.00E+00	0%	1.08E-02	7 %	1.80E-05	< 1%
Mandatory indicators	Photochemical ozone creation	1.34E+00	g~C ₂ H ₄ eq.	6.12E-01	46%	3.35E-02	3%	0.00E+00	0%	6.90E-01	52%	2.16E-03	< 1%
Mandat	Air acidification	1.33E+00	g~H+ eq.	1.83E-01	14%	4.93E-03	< 1%	0.00E+00	0%	1.14E+00	86%	1.80E-03	< 1%
	Total energy depletion	8.38E+01	MJ	1.80E+01	21%	4.89E-01	< 1%	0.00E+00	0%	6.52E+01	78%	1.37E-01	< 1%
	Water depletion	1.69E+01	dm³	1.08E+01	64%	4.64E-02	< 1%	0.00E+00	0%	6.01E+00	36%	1.01E-03	< 1%
LS	Raw material depletion	1.05E-15	year ⁻¹	1.04E-15	99%	6.66E-19	< 1%	0.00E+00	0%	1.38E-17	1%	1.98E-19	< 1%
ndicato	Air toxicity	1.65E+06	m³	3.02E+05	18%	7.28E+03	< 1%	0.00E+00	0%	1.34E+06	81%	2.68E+03	< 1%
Optional indicators	Water toxicity	5.99E-01	m³	4.10E-01	69%	5.39E-03	< 1%	0.00E+00	0%	1.79E-01	30%	4.15E-03	< 1%
0 0	Hazardous waste production	1.65E-01	kg	1.92E-02	12%	1.44E-05	< 1%	0.00E+00	0%	1.46E-01	88%	1.20E-08	< 1%

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

The environmental impacts refer to a complete configuration composed by socket, plate and support.

For configurations composed with the following plate finishes, the indicators for the Manufacturing phase are obtained by multiply those of the Reference Product by:

PLATE FINISHES	MANUFACTURING PHASE						
PLAIE FINISHES	Other indicators	Air toxicity	Hazardous waste production	Photochemical ozon creation			
Mirror	1.40	-	3.30	-			
Casual/Formal	1.30	2.00	3.30	2.50			
Wood	1.25	-	3.30	-			

The environmental impacts of the distribution and end of life phases do not have significant variations from those of the Reference Product. The impacts of the use phase are the same, the impacts of the installation phase are always nil.

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-2015-290-V1-EN		Drafting rule → PCR: PEP-PCR-ed 2.1-FR-2012 12 11 → PSR: PSR-0005-ed1-FR-2012 12 11			
Authorisation number of checker: VH23	ecopassport.org				
Date of issue: 10-2015					
Independent verification of the declaration and data, in ac Internal \square External \square	PEP				
In accordance with ISO 14025: 2006 Type III environmenta	eco				
The critical review of the PCR was conducted by a panel of	PASS				
The elements of the present PEP cannot be compared wit	—				