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Product Environmental Profile

Audio Kit - F8-S Electronic Doorphone





■ 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 the Group 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 and provide informations in compliance with ISO 14025

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	Allow audio communication between outside area and inside the residence allowing the door lock release for a reference life time of 10 years. The system is supplied in kit.
Reference Product	
	Cat. No 900201217
	F8-S Electronic Doorphone

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:

Complete product kit	Internal Unit
• 900201217	• 900201210
• 900602217	• 900201211
• 900201954	• 900201213
• 900201953	• 900201694
• 900210000	• 900101719
• 900210998	



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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 respects the restrictions on use of hazardous substances as defined in the RoHS directive 2011/65/EU amended by delegated directive (EU) 2015/863, and its amendment 2017/2102/EU.

Total weight of	
Total Weight of	
Reference Product	592 g (all packaging included)
iverence i roudct	372 g (att packaging metuded)

Plastics as % of weight		Metals as % of weight		Other as % of weight		
ABS	48.1 %	Steel	3.1 %	Various electronic components	9.4 %	
PA	0.6 %	AL	2.2 %	Electronic board	8.5 %	
Other plastics	0.4 %	Copper alloys	0.2 %	Cables / electrical wires	4.6 %	
PC	<0.1%					
PVC	<0.1%					
		Packaging as % of weight				
PVC	9.2 %			Paper	13.6 %	
PE	0.1 %					
Total plastics	58.4 %	Total metals	5.5 %	Total others	36.1 %	

Estimated recycled material content: 15 % by mass.



MANUFACTURE

This Reference Product comes from a site 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 775 km, by road from our warehouse to the local point of distribution into the market in Brazil.

Packaging is compliant with applicable regulation. At their end of life, its recyclability rate is 59% (in % of packaging weight).



■ INSTALLATION ■

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



USE

Under normal conditions of use, this product requires no servicing, no maintenance or additional products.



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■ END OF LIFE ■

The product end of life factors are taken into account during 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 72%. This value is based on data collected from a technological channel operating on an industrial basis. It does not pre-validate the effective use of this channel for the end of life of this product.

Separated into:

- plastic materials (excluding packaging)
- metal materials (excluding packaging)
- 0ther materials (excluding packaging)
- packaging (all types of materials)
: 14 %



■ 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 Brazil. For each phase, the following modelling elements were taken in account:

Manufacture	Materials and components of the product, all transport for the manufacturing, the packaging and the waste generated by the manufacturing.
Distribution	Transport between the last Group distribution centre and an average delivery point in the sales area.
Installation	The end of life of the packaging.
Use	 Product category: active product. Use scenario: for a 10 years working life, operation at active phase of 6,82 Watts during 0,47% of the time; at sleep phase of 2,42 Watts during 99,5% of the time and other phase 12,32 Watts during 0,03% of the time per year. This modelling duration does not constitute a minimum durabilty requirement. Energy model: Electricity Mix; Brazil - 2009
End of life	The default end of life scenario maximizing the impacts.
Software and database used	EIME & database CODDE-2018-11



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■ SELECTION OF ENVIRONMENTAL IMPACTS ■

	Total for l	_ife cycle	Raw material a manufact		Distributi	on	Installatio	on	Use		End of life	•
Global warming	5.12E+01	kgCO ₂ eq.	4.93E+00	10%	2.28E-02	< 1%	1.16E-02	< 1%	4.62E+01	90%	5.29E-02	< 1%
Ozone depletion	6.63E-06	kgCFC-11 eq.	7.93E-07	12%	4.63E-11	< 1%	2.03E-10	< 1%	5.84E-06	88%	1.31E-09	< 1%
Acidification of soils and water	4.38E-02	kgSO ₂ eq.	9.32E-03	21%	1.03E-04	< 1%	4.97E-05	< 1%	3.41E-02	78%	2.02E-04	< 1%
Water eutrophication	1.14E-02	kg(PO ₄)³- eq.	2.02E-03	18%	2.36E-05	< 1%	5.52E-05	< 1%	9.11E-03	80%	2.35E-04	2%
Photochemical ozone formation	1.02E-02	kgC ₂ H ₄ eq.	9.48E-04	9%	7.29E-06	< 1%	3.70E-06	< 1%	9.23E-03	90%	1.58E-05	< 1%
Depletion of abiotic resources - elements	5.71E-04	kgSb eq.	5.68E-04	99%	9.14E-10	< 1%	6.44E-10	< 1%	3.34E-06	< 1%	3.36E-09	< 1%
Total use of primary energy	1.44E+03	МЛ	8.21E+01	6%	3.23E-01	< 1%	1.41E-01	< 1%	1.36E+03	94%	5.80E-01	< 1%
Net use of fresh water	7.62E-01	m³	6.99E-01	92%	2.04E-06	< 1%	7.40E-06	< 1%	6.32E-02	8%	4.53E-05	< 1%
Depletion of abiotic resources - fossil fuels	3.39E+02	МЛ	5.36E+01	16%	3.21E-01	< 1%	1.31E-01	< 1%	2.84E+02	84%	5.20E-01	< 1%
Water pollution	2.95E+03	m³	1.01E+03	34%	3.76E+00	< 1%	1.52E+00	< 1%	1.93E+03	65%	6.04E+00	< 1%
Air pollution	3.47E+03	m³	4.29E+02	12%	9.36E-01	< 1%	1.42E+00	< 1%	3.03E+03	87%	6.14E+00	< 1%

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.

For the 900602217 product the environmental impacts of each phase of the lifecycle are asimilated to the impacts of the Reference Product.

For the 900201953 product the environmental impacts of each phase of the lifecycle are obtained by adopting the following coefficients on those of the Reference Product:

	Total LCA	Raw material and manufacture	Distribution	Installation	Use	End of life
Global warming	0.9	1.1				1.3
Ozon depletion	0.9	1.0				1.4
Acidification of soil and water	0.9	1.0				1.3
Water eutrophication	1.0	1.6				1.3
Photochemical ozon creation	0.9	1.2				1.3
Depletion of abiotic resources - elements	0.8	0.8	1.2	1.0	0.9	1.3
Total use of primary energy during the life cycle	0.9	1.2				1.3
Net use of fresh water	1.0	1.0				1.4
Depletion of abiotic resources - fossil fuels	1.0	1.3				1.3
Water pollution	1.0	1.1				1.3
Air pollution	1.0	1.3				1.3



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For the 900201954 product the environmental impacts of each phase of the lifecycle are obtained by adopting the following coefficients on those of the Reference Product:

	Total LCA	Raw material and manufacture	Distribution	Installation	Use	End of life
Global warming	0.8	1.0				
Ozon depletion	0.8	1.0				
Acidification of soil and water	0.9	1.0				
Water eutrophication	0.9	1.0				
Photochemical ozon creation	0.8	1.0				
Depletion of abiotic resources - elements	0.9	0.9	1.0	1.0	0.8	1.0
Total use of primary energy during the life cycle	0.8	1.0				
Net use of fresh water	1.0	1.0				
Depletion of abiotic resources - fossil fuels	0.8	1.0				
Water pollution	0.9	1.0				
Air pollution	0.8	1.0				

For the 900210000 product the environmental impacts of each phase of the lifecycle are obtained by adopting the following coefficients on those of the Reference Product:

	Total LCA	Raw material and manufacture	Distribution	Installation	Use	End of life
Global warming	1.3	1.0				
Ozon depletion	1.3	1.0				
Acidification of soil and water	1.3	1.0				
Water eutrophication	1.3	1.0				
Photochemical ozon creation	1.3	1.0				
Depletion of abiotic resources - elements	0.9	0.9	1.0	1.0	1.4	1.0
Total use of primary energy during the life cycle	1.3	1.0				
Net use of fresh water	1.0	1.0				
Depletion of abiotic resources - fossil fuels	1.3	1.0				
Water pollution	1.2	1.0	1			
Air pollution	1.3	1.0				



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For the 900210998 product the environmental impacts of each phase of the lifecycle are obtained by adopting the following coefficients on those of the Reference Product:

	Total LCA	Raw material and manufacture	Distribution	Installation	Use	End of life
Global warming	2.4	1.1				
Ozon depletion	2.4	1.1				
Acidification of soil and water	2.2	1.1				
Water eutrophication	2.2	1.1				
Photochemical ozon creation	2.4	1.1				
Depletion of abiotic resources - elements	1.0	1.0	1.0	1.0	2.5	1.0
Total use of primary energy during the life cycle	2.5	1.1				
Net use of fresh water	1.4	1.3				
Depletion of abiotic resources - fossil fuels	2.3	1.1				
Water pollution	2.0	1.1				
Air pollution	2.4	1.2				

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Verifier accreditation N°: VH23	Information and reference documen	ts: www.pep-ecopassport.org			
Date of issue: 10-2021	Validity period: 5 years				
Independent verification of the declaration and data, in continuous linearial \square	ompliance with ISO 14025 : 2010				
The PCR review was conducted by a panel of experts cha	PEP				
PEP are compliant with XP C08-100-1 : 2016 The elements of the present PEP cannot be compared wi	l eco PASS				
Document in compliance with ISO 14025 : 2010: «Environ Type III environmental declarations»	PORT				
Environmental data in alignment with EN 15804: 2012 + A	A1 : 2013				