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Product Environmental Profile

Sliding modular optical drawer 19 inches LCS³ equipped with 24 duplex connectors LC multimodes





■ 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	To connect and link a connection point for 10 years with a 25 % use rate for optical telecommunication application in residential building.
Reference Product	
	Cat.No 0 321 04
	Sliding modular optical drawer 19 inches LCS³ equipped with 24 duplex connectors LC multimodes.

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 is representative of the following products:

Catalogue Numbers

- 0 321 00
- 0 321 02
- 0 321 06



Total woight of

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■ CONSTITUENT MATERIALS I

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.

For 1 unit of ref 0 321 04 or 1 unit of ref 0 321 00 and 4 units of ref 0 321 34.

Reference Product	91 g (all packaging included)				
Plastics as % of weight		Metals as % of weight		Other as % of weight	
Other plastics	8.0 %	Steel	46.5 %	Ceramic	< 0.1 %
PC .	7.4 %	Zamak	1.0 %		
PA	0.6 %	Other metals	< 0.1 %		
PS	0.1 %				
ABS	< 0.1 %				
PP	< 0.1 %				
		Packaging as %	of weight		
				Paper	19.7 %
				Wood	14.5 %
				PP	2.0 %
				PE	< 0.1 %
Total plastics	16.2 %	Total metals	47.6 %	Total others	36.2 %

Estimated recycled material content: 19 % by mass.

For 1 unit of ref 0 321 02 or 1 unit of ref 0 321 06.

Total weight of Reference Product	91 g (all packaging included)	

Plastics as % of weight		Metals as % of weight		Other as % of weight	
Other plastics	6.3 %	Steel	36.0 %	Ceramic	< 0.1 %
PC	5.7 %	Zamak	0.8 %		
PA	0.7 %	Other metals	< 0.1 %		
PS	< 0.1 %				
ABS	< 0.1 %				
PP	< 0.1 %				
		Packaging as % of weight	jht		
				Wood	33.6 %
				Paper	15.3 %
				PP ⁻	1.5 %
				PE	< 0.1 %
Total plastics	12.7 %	Total metals	36.8 %	Total others	50.4 %

Estimated recycled material content: 15 % by mass.



■ MANUFACTURE ■

This Reference Product comes from sites 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 877 km by road from our warehouse to the local point of distribution into the market in all around the world.

Packaging is compliant with applicable regulation. At their end of life, its recyclability rate is 92 % (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 I

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 89 %. 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)
- other materials (excluding packaging)
- packaging (all types of materials)
: 33 %



■ 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 worlwide marketed products.

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: PSR-0001-ed3-EN-2015 10 16 - 6.2. Optical Telecom accessories. Use scenario: for a 10 years working life, 0.109 mW losses at 25 % use rate. This modelling duration does not constitute a minimum durabilty requirement. Energy model: Electricity Mix; China - 2009. 			
End of life	ind of life The default end of life scenario maximizing the impacts.			
Software and database used	EIME V5 and its database «CODDE-2015-04»			



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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	e
Global warming	2.78E-01	kgCO ₂ eq.	2.65E-01	95 %	3.95E-03	1 %	1.97E-03	< 1 %	2.43E-03	< 1 %	4.54E-03	2 %
Ozone depletion	1.31E-08	kgCFC-11 eq.	1.30E-08	99 %	8.00E-12	< 1 %	1.44E-11	< 1 %	1.93E-11	< 1 %	6.29E-11	< 1 %
Acidification of soils and water	4.56E-04	kgSO ₂ eq.	4.08E-04	89 %	1.78E-05	4 %	9.16E-06	2 %	2.63E-06	< 1 %	1.85E-05	4 %
Water eutrophication	1.37E-04	kg(PO ₄)³- eq.	9.79E-05	71 %	4.08E-06	3 %	7.46E-06	5 %	6.95E-07	< 1 %	2.73E-05	20 %
Photochemical ozone formation	6.34E-05	kgC ₂ H ₄ eq.	5.97E-05	94 %	1.26E-06	2 %	6.54E-07	1 %	3.11E-07	< 1 %	1.40E-06	2 %
Depletion of abiotic resources - elements	3.48E-05	kgSb eq.	3.48E-05	100 %	1.58E-10	< 1 %	8.79E-11	< 1 %	1.07E-11	< 1 %	2.30E-10	< 1 %
Total use of primary energy	6.31E+00	МЛ	6.14E+00	97 %	5.30E-02	< 1 %	2.55E-02	< 1 %	3.97E-02	< 1 %	5.18E-02	< 1 %
Net use of fresh water	5.42E-03	m³	5.41E-03	100 %	3.54E-07	< 1 %	5.94E-07	< 1 %	2.71E-06	< 1 %	2.26E-06	< 1 %
Depletion of abiotic resources - fossil fuels	3.69E+00	МЛ	3.51E+00	95 %	5.55E-02	2 %	2.76E-02	< 1 %	3.80E-02	1 %	6.16E-02	2 %
Water pollution	5.21E+01	m³	5.04E+01	97 %	6.50E-01	1 %	3.02E-01	< 1 %	1.21E-01	< 1 %	5.95E-01	1 %
Air pollution	3.56E+01	m³	3.46E+01	97 %	1.62E-01	< 1 %	1.92E-01	< 1 %	2.52E-01	< 1 %	3.66E-01	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.



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■ SELECTION OF ENVIRONMENTAL IMPACTS (CONTINUED)

For products covered by the PEP other than the Reference Product, the environmental impacts of each phase of the lifecycle are calculated with this set of coef to apply.

	SLIDIN		e Product: 0 321 (ICAL DRAWER 19	-		
	Coeffici	ent of extrapolat	ion of environmen	tal indicators		
Associed references	Manufacturing	Distribution	Insta	llation	Use	End of line
0 321 00 + 4 units of 0 321 34	3,1	3	All	3,2	1	3
0 321 02 or 0 321 06	2,2	2,6	ODP	0.5	1	2
			EP			
			FW	2,5		
			AP	1		
			Others	3,4		

Registration N°: LGRP-00694-V01.01-EN	Drafting rules: «PEP-PCR-ed3-EN-2015 04 02» Supplemented by «PSR-0001-ed3-EN-2015 10 16»
Verifier accreditation N°: VH02	Information and reference documents: www.pep-ecopassport.org
Date of issue: 04-2018	Validity period: 5 years
Independent verification of the declaration and data, in confinernal External □	mpliance with ISO 14025 : 2010
The PCR review was conducted by a panel of experts chair	red by Philippe Osset (SOLINNEN)
PEP are compliant with XP C08-100-1 : 2014 The elements of the present PEP cannot be compared with	h elements from another program
Document in compliance with ISO 14025 : 2010: «Environm Type III environmental declarations»	
Environmental data in alignment with EN 15804: 2012 + A	1 : 2013