

Product Environmental Profile

FLAT PATCH PANEL EQUIPPED WITH 24 RJ 45 CONNECTORS LCS³ - 19'' - 1U - CAT.8 STP - METAL SHIELDING



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	Providing for 10 years a connection point to the VDI network RJ 45 ISDN Numeris / Internet Cat.8 - Cat.8 cable.
Reference Product	 <p>Cat.No 0 337 82 FLAT PATCH PANEL EQUIPPED WITH 24 RJ 45. CONNECTORS LCS³ - 19'' - 1U - CAT.8 STP - METAL. SHIELDING.</p>

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
• 0 337 90 associated with 0 337 85 ; 0 337 91 associated with 0 337 55 & 0 337 85.

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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.

Total weight of Reference Product	153 g (all packaging included)				
Plastics as % of weight		Metals as % of weight		Other as % of weight	
PC	8.6 %	Steel	29.9 %	Electronic card	0.6 %
ABS	4.4 %	Zamak	28.3 %		
PA	0.6 %	Copper alloys	1.9 %		
PBT	0.4 %	Other metals	1.3 %		
PS	< 0.1 %				
Other plastic	< 0.1 %				
Packaging as % of weight					
PE	0.2 %			Paper	12.5 %
PP (packaging)	< 0.1 %			Wood	11.4 %
Total plastics	14.1 %	Total metals	61.3 %	Total others	24.5 %

Estimated recycled material content: 12 % by mass.

For 1 unit of ref 0 337 90 and 4 unit of ref 0 337 85

Total weight of Reference Product	147 g (all packaging included)				
Plastics as % of weight		Metals as % of weight		Other as % of weight	
PC	9.0 %	Steel	31.1 %	Electronic card	0.7 %
ABS	4.5 %	Zamak	29.3 %		
PA	0.6 %	Copper alloys	2.0 %		
PBT	0.4 %	Other metal	1.3 %		
PS	< 0.1 %				
Other plastic	< 0.1 %				
Packaging as % of weight					
PE	0.1 %			Paper	16.5 %
PP (packaging)	< 0.1 %			Wood	4.4 %
Total plastics	14.7 %	Total metals	63.7 %	Total others	21.6 %

Estimated recycled material content: 15 % by mass.

For 1 unit of ref 0 337 91 and 4 unit of ref 0 337 55 and 4 unit 0 337 85

Total weight of Reference Product	159 g (all packaging included)				
Plastics as % of weight		Metals as % of weight		Other as % of weight	
PC	8.2 %	Steel	28.4 %	Electronic card	0.6 %
ABS	4.1 %	Zamak	26.8 %		
PA	0.5 %	Copper alloys	1.8 %		
PBT	0.4 %	Other metal	1.2 %		
PS	< 0.1 %				
Other plastic	< 0.1 %				
Packaging as % of weight					
PE	0.1 %			Paper	22.3 %
PP (packaging)	< 0.1 %			Wood	5.5 %
Total plastics	13.4 %	Total metals	58.2 %	Total others	28.4 %

Estimated recycled material content: 19 % by mass.

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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 4986 km by plane, 333 km by road and 5654 km by boat 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 97 % (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.



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 97 %. 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) : 13 %
- metal materials (excluding packaging) : 61 %
- other materials (excluding packaging) : 0 %
- packaging (all types of materials) : 23 %



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 worldwide 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	<ul style="list-style-type: none"> • Product category: passive product. Patchpanel equipped with RJ 45 cat 8 sockets. • Use scenario: non-continuous operation for 10 years of working life, during 25 % of the time for building LAN tertiary applications, 9.484 mW of energy losses determined by standard according to IEC 46/683/DTR (for 40 Gbit Ethernet Cat.8). This modelling duration does not constitute a minimum durability requirement. • Energy model: Electricity Mix; Europe 27 - 2008.
End of life	The default end of life scenario maximizing the environmental impacts.
Software and database used	EIME & database CODDE-2016-11

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SELECTION OF ENVIRONMENTAL IMPACTS

	Total for Life cycle		Raw material and manufacture		Distribution		Installation		Use		End of life	
	Value	Unit	Value	%	Value	%	Value	%	Value	%	Value	%
Global warming	2.67E+00	kgCO ₂ eq.	9.51E-01	36 %	1.61E+00	60 %	2.09E-03	< 1 %	1.02E-01	4 %	8.70E-03	< 1 %
Ozone depletion	6.49E-08	kgCFC-11 eq.	5.56E-08	86 %	2.46E-09	4 %	1.08E-11	< 1 %	6.63E-09	10 %	1.07E-10	< 1 %
Acidification of soils and water	7.04E-03	kgSO ₂ eq.	1.43E-03	20 %	5.14E-03	73 %	9.84E-06	< 1 %	4.24E-04	6 %	3.57E-05	< 1 %
Water eutrophication	2.16E-03	kg(PO ₄) ³⁻ eq.	9.80E-04	45 %	1.09E-03	51 %	7.32E-06	< 1 %	2.56E-05	1 %	5.42E-05	3 %
Photochemical ozone formation	5.84E-04	kgC ₂ H ₄ eq.	2.07E-04	36 %	3.50E-04	60 %	6.97E-07	< 1 %	2.33E-05	4 %	2.71E-06	< 1 %
Depletion of abiotic resources - elements	8.84E-05	kgSb eq.	8.83E-05	100 %	6.41E-08	< 1 %	8.85E-11	< 1 %	8.84E-09	< 1 %	4.26E-10	< 1 %
Total use of primary energy	4.09E+01	MJ	1.61E+01	39 %	2.27E+01	55 %	2.89E-02	< 1 %	2.03E+00	5 %	1.05E-01	< 1 %
Net use of fresh water	3.83E-01	m ³	1.43E-02	4 %	1.50E-04	< 1 %	4.81E-07	< 1 %	3.69E-01	96 %	3.91E-06	< 1 %
Depletion of abiotic resources - fossil fuels	3.51E+01	MJ	1.12E+01	32 %	2.26E+01	64 %	2.92E-02	< 1 %	1.16E+00	3 %	1.17E-01	< 1 %
Water pollution	3.62E+02	m ³	9.23E+01	25 %	2.64E+02	73 %	3.30E-01	< 1 %	4.20E+00	1 %	1.16E+00	< 1 %
Air pollution	2.88E+02	m ³	2.49E+02	87 %	3.33E+01	12 %	1.90E-01	< 1 %	4.38E+00	2 %	6.60E-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.

The impacts are calculated for one connector RJ 45, according to PSR-0005-ed2-FR-2016 03 29. To calculate the impacts for the real product, multiply all the indicators by the quantity of connectors into the product. To know the values of the environmental impacts of the products concerned other than the Reference Product, multiply the values of environmental indicators by the following corresponding factors.

The Reference Product: 0 337 82						
Flat patch panel equipped with 24 RJ 45. connectors LCS ³ - 19'' - Cat.8 STP - Metal shielding						
Coefficient of extrapolation of environmental indicators						
Associated references	Manufacturing	Distribution	Installation	Use	End of life	
0 337 90 - Flat 24 - connector. Patch panel LCS ³ - 19'' 1 U with empty cassettes to be equipped with connectors	1	1	1	1	1	
0 337 91 - Patch panel LCS ³ - 19'' 1 U with empty cassettes to be equipped with connectors	1	1	1.4	1	1	

Registration N°: LGRP-00867-V01.01-EN	Drafting rules: «PEP-PCR-ed3-EN-2015 04 02»
Verifier accreditation N°: VH02	Information and reference documents: www.pep-ecopassport.org
Date of issue: 12-2018	Validity period: 5 years
Independent verification of the declaration and data, in compliance with ISO 14025 : 2010 Internal <input checked="" type="checkbox"/> External <input type="checkbox"/>	
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»	
Environmental data in alignment with EN 15804: 2012 + A1 : 2013	

