



### 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

<b>Function</b>	Actuate during 20 years the contact blocks in a curt and irreversible way in accordance with the IEC 60947-5-5 standard.
Reference Product	 <p style="text-align: center;">Catalogue Number L22ER01 HEAD P-TURN 40 RED EN</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 for the reference product refers to the following Catalogue Numbers:

<b>References</b>
L22DQ01; L22DD01; L22DR01; L22DD03; L22EC01; L22EC03; L22ED01; L22ED03; L22ED01B; L22ER01; L22DU01A; L22DU01; L22DC01; L22DQ01



**■ CONSTITUENT MATERIALS**

This Reference Product contains no substances prohibited by the regulations applicable at the time of its introduction to the market. At the date of publication of this document, this Reference Product does not contain RoHS substances (2002/95/EC and its revision 2011/65/EU). It contains none of the 138 candidate substances of the candidate list of the REACH regulation dated 19/12/2012.

Total weight of Reference Product		33.2 g (with unit packaging)			
Plastics as % of weight		Metals as % of weight		Other as % of weight	
PA	48.5%	Steel	15.6%	grease	0.3%
PC	28.4%	Zamak	3.6%		
other plastic	1.4%				
				Packaging as % of weight	
				Paper	2.2%
Total plastics	78.3%	Total metals	19.2%	Total other and packaging	2.5%

Estimated recycled material content: 9% by mass.



**■ MANUFACTURE**

This Reference Product comes from a site 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 780 km by road from our warehouse to the local point of distribution into the market in Europe

Packaging is compliant with european directive 2004/12/EC concerning packaging and packaging waste.

At the packaging end of life, its theoretical recycling potential is of 100% (in % of the mass of the packaging)



**■ 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 the Reference Product



**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 the IEC/TR 62635 technical report, the recyclability rate of the product is estimated as 94%. 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:

- Plastic materials : 73%
- Metal materials : 19 %
- Other materials : 0 %
- Packaging : 2 %



**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 Europe, in compliance with the local current standards

The following modelling elements were taken into account:

Manufacture	Unit packaging taken in account. As required by the "PEP ecopassport" programme all transports 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	<ul style="list-style-type: none"> <li>• Under normal conditions of use, this type of Product requires no servicing or maintenance</li> <li>• No consumables are necessary to use the Reference Product</li> <li>• Product category : enveloppe</li> <li>• Use scenario : no energy consumption during the 20 years working life. This modelling duration does not constitute a minimum durability requirement.</li> </ul>
End of life	In view of the data available 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 database "CODDE-2012-07"



ENVIRONMENTAL IMPACTS (continued)

		Total for Life cycle		Raw material and manufacture		Distribution		Installation		Use		End of life	
Mandatory indicators	Contribution to greenhouse effect	2.97E+02	g~CO2	2.92E+02	98%	3.07E+00	1%	0.00E+00	0%	0.00E+00	0%	1.66E+00	< 1%
	Damage to the ozone layer	2.67E-05	g~CFC-11	2.46E-05	92%	2.17E-06	8%	0.00E+00	0%	0.00E+00	0%	3.14E-09	< 1%
	Eutrophisation of water	8.40E-02	g~PO43-	8.39E-02	100%	5.11E-05	< 1%	0.00E+00	0%	0.00E+00	0%	3.08E-06	< 1%
	Photochemical ozone formation	1.04E-01	g~C2H4	1.01E-01	97%	2.67E-03	3%	0.00E+00	0%	0.00E+00	0%	3.70E-04	< 1%
	Acidification of the air	4.02E-02	g~H+	3.95E-02	98%	3.91E-04	< 1%	0.00E+00	0%	0.00E+00	0%	3.08E-04	< 1%
	Total energy consumed	4.63E+00	MJ	4.57E+00	99%	3.88E-02	< 1%	0.00E+00	0%	0.00E+00	0%	2.34E-02	< 1%
	Consumption of water	3.12E+00	dm3	3.12E+00	100%	3.69E-03	< 1%	0.00E+00	0%	0.00E+00	0%	1.72E-04	< 1%

Optional indicators	Depletion of natural resources	1.45E-17	années <sup>-1</sup>	1.44E-17	99%	5.29E-20	< 1%	0.00E+00	0%	0.00E+00	0%	3.39E-20	< 1%
	Toxicity of the air	5.34E+04	m <sup>3</sup>	5.23E+04	98%	5.79E+02	1%	0.00E+00	0%	0.00E+00	0%	4.58E+02	< 1%
	Toxicity of the water	1.32E-01	dm <sup>3</sup>	1.31E-01	99%	4.28E-04	< 1%	0.00E+00	0%	0.00E+00	0%	7.09E-04	< 1%
	Production of hazardous waste	3.62E-03	kg	3.62E-03	100%	1.14E-06	< 1%	0.00E+00	0%	0.00E+00	0%	2.05E-09	< 1%

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

To determine the environmental impact of a product covered by the PEP other than the cat.number (L22ER01) the following rules apply :

- The Manufacturing, Distribution and End of life phases are proportional to the mass
- The environmental impacts of the Use phase are null

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-2015-342-v1-en	Drafting rule: PEP-PCR-ed 2.1-FR-2012 12 11 PSR-0005-ed1-FR-2012 12 11
Authorisation number of checker: VH02	Programme information: www.pep-ecopassport.org
Date of issue: 12-2015	Validity period: 4 years
Independent verification of the declaration and data, in accordance with ISO 14025:2006 Internal <input checked="" type="checkbox"/> External <input type="checkbox"/>	
In accordance with ISO 14025 :2006 Type III environmental declaration	
The critical review of the PCR was conducted by a panel of experts chaired by J.Chevalier (CSTB)	
The elements of the present PEP cannot be compared with elements from another programme	

