



## 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>	Ensures the electrical connection to a 15V 125VAC rated low-voltage electrical circuit, according to the US standards UL498. 20 years expected lifetime
<b>Reference Product</b>	
	Cat.No 3232TRW
	Duplex grounding receptacle

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 references:

Catalogue Numbers
3232W4, 3232SW, 3232, 3232W, 3232TRNAW, 3232TRBK, 3232TRLA, 3232TRI

# Product Environmental Profile

PASS & SEYMOUR®  
TradeMaster® Duplex Grounding Receptacle



## ■ 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 contains one RoHS substance (2002/95/EC and its revision 2011/65/EU) : Chromium VI

<b>Total weight of Reference Product</b>		2.1 oz (with unit packaging)			
Plastics as % of weight		Metals as % of weight		Other as % of weight	
Polyvinyl Chloride	39.5 %	Steel	25.0 %		
Polyamide	2.8 %	Copper alloys	24.4 %		
				<b>Packaging as % of weight</b>	
				Cardboard	8.3 %
<b>Total plastics</b>	<b>42.3 %</b>	<b>Total metals</b>	<b>49.4 %</b>	<b>Total other and packaging</b>	<b>8.3 %</b>

Estimated recycled material content: 23 % by mass.



## ■ 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 750 miles by truck from our warehouse to the local point of distribution into the market in The United States of America.



## ■ 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 Reference Product requires no servicing or maintenance

### Consumable:

No consumables are necessary to use the Reference Product



## END OF LIFE

**• Hazardous waste contained in the product:**  
No hazardous waste comes from this Reference Product.

**• Recyclability rate:**  
Calculated using the method described in the IEC/TR 62635 technical report, the recyclability rate of the product is estimated as 97.9 %. 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 (in % mass of the Reference Product):

- Plastic materials (excluding packaging) : 40%
- Metal materials (excluding packaging) : 49%
- Packaging (all types of materials) : 8%



## 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 the United States of America.

The following modelling elements were taken in account:

<b>Manufacture</b>	Unit packaging taken into 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.
<b>Distribution</b>	Transport between the last Group distribution centre and an average delivery to the sales area.
<b>Installation</b>	Installation components not delivered with the product are not taken into account.
<b>Use</b>	<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 this type of product.</li> <li>• Product category: passive product.</li> <li>• Use scenario: non continuous operation for 20 years at 30% of rated load, 30% of the time. This modelling duration does not constitute a minimum durability requirement.</li> <li>• Energy model: US - 2009</li> </ul>
<b>End of life</b>	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 the end of life was counted.
<b>Software used</b>	EIME V5 and its database «Legrand-2012-10-31 version 3» made from database «CODDE-2012-07»

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PASS & SEYMOUR®  
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## ENVIRONMENTAL IMPACTS (continued)

	Total for Life cycle		Raw material and manufacture		Distribution		Installation		Use		End of life		
	Value	Unit	Value	%	Value	%	Value	%	Value	%	Value	%	
<b>Mandatory indicators</b>	Global warming	2.61E+03	g~CO <sub>2</sub> eq.	2.64E+02	10%	9.09E+00	< 1%	0.00E+00	0%	2.33E+03	89%	4.48E+00	< 1%
	Ozon depletion	8.76E-05	g~CFC-11 eq.	3.59E-05	41%	6.43E-06	7%	0.00E+00	0%	4.20E-05	48%	3.18E-06	4%
	Water eutrophication	3.30E-02	g~PO <sub>4</sub> <sup>3-</sup> eq.	2.53E-02	77%	1.51E-04	< 1%	0.00E+00	0%	7.46E-03	23%	7.48E-05	< 1%
	Photochemical ozone creation	5.33E-01	g~C <sub>2</sub> H <sub>4</sub> eq.	9.88E-02	19%	7.88E-03	1%	0.00E+00	0%	4.22E-01	79%	3.90E-03	< 1%
	Air acidification	4.73E-01	g~H+ eq.	7.48E-02	16%	1.16E-03	< 1%	0.00E+00	0%	3.97E-01	84%	5.93E-04	< 1%
	Total energy depletion	3.55E+01	MJ	5.03E+00	14%	1.15E-01	< 1%	0.00E+00	0%	3.03E+01	85%	5.68E-02	< 1%
	Water depletion	6.54E+00	dm <sup>3</sup>	2.42E+00	37%	1.09E-02	< 1%	0.00E+00	0%	4.10E+00	63%	5.39E-03	< 1%

<b>Optional indicators</b>	Raw material depletion	1.55E-15	year <sup>-1</sup>	1.51E-15	98%	1.57E-19	< 1%	0.00E+00	0%	3.44E-17	2%	7.75E-20	< 1%
	Air toxicity	6.60E+05	m <sup>3</sup>	1.89E+05	29%	1.71E+03	< 1%	0.00E+00	0%	4.68E+05	71%	8.78E+02	< 1%
	Water toxicity	4.83E-01	m <sup>3</sup>	3.06E-01	63%	1.27E-03	< 1%	0.00E+00	0%	1.75E-01	36%	6.26E-04	< 1%
	Hazardous waste production	5.68E-02	kg	7.93E-03	14%	3.38E-06	< 1%	0.00E+00	0%	4.89E-02	86%	1.67E-06	< 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 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-2013-152-V1-EN	Drafting rule: PEP-PCR-ed 2.1-FR-2012 12 11
Authorisation number of checker: VH02	Programme information: <a href="http://www.pep-ecopassport.org">www.pep-ecopassport.org</a>
Date of issue: 08-2013	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	

