La legrand

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Your usual Sales office www.legrand.com

Product Environmental Profile

Forix™



2x2P+E Socket outlet German standard - 16A - 250V



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 | Connect/Disconnect during 20 years the plug of a load consuming 16A under a voltage of 250V while protecting the user from direct contact with live parts. |
|-------------------|--|
| Reference Product | |
| | Cat. No. 7 824 33 |
| | Forix™ |
| | 2x2P+E Socket outlet German standard screw terminal without shutter 16A 250V~ White |

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

- 7 824 33
- 7 824 31
- 7 824 37
- 7 824 61
- 7 824 63
- 7 824 67

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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 Reference Product | 112 g (all | packaging included) | | | |
|--------------------------------------|-------------------|-----------------------|-------------|----------------------|--------|
| Plastics as % of weight | | Metals as % of weight | | Other as % of weight | |
| PP | 26.6 % | Copper alloys | 18.1 % | | |
| PC | 22.3 % | Steel | 4.8 % | | |
| PS | < 0.1 % | | | | |
| | | Packaging as % | 6 of weight | | |
| PP | 2.5 % | | | Wood | 14.6 % |
| PET | < 0.1 % | | | Paper | 11.1 % |
| PE | < 0.1 % | | | | |
| Total plastics | 51.4 % | Total metals | 22.9 % | Total others | 25.7 % |

Estimated recycled material content: 19 % by mass.



MANUFACTURE

This Reference Product comes from a site that has received ISO14001 certification.



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 1405 km by road from our warehouse to the local point of distribution into the market in Europe.

Packaging is compliant with applicable regulation. At their end of life, its recyclabilty rate is 89 % (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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Product Environmental Profile

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2x2P+E Socket outlet German standard - 16A - 250V



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. This product falls within the scope of the WEEE directive (2012/19/EU). Therefore it must be processed through local WEEE recycling/recovery channels.

• Extended producer responsability:

The sale of this product is subject to a contribution to eco-organisations in each country responsible for managing end of life products in the field of application of the European Waste Electronic and Electrical Equipment Directive.

• Recyclability rate:

Calculated using the method described in technical report IEC/TR 62635, the recyclability rate of the product is estimated at 94%. 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 end of life of this product.

Separated into:

| - plastic materials (excluding packaging) | : 46 % |
|--|--------|
| - metal materials (excluding packaging) | : 23 % |
| packaging (all types of materials) | : 25 % |

- packaging (all types of materials)



ENVIRONMENTAL IMPACTS

TThe 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 <zone de commercialisation>.

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-0005-ed2-EN-2016 03 29 - § 3.8.1.1 - Power socket and electronic connection socket. Use scenario : non-continuous operation for 20 years at 50% of rated load, during 50% of the time. 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 impacts. | | | |
| Software and database used | EIME & database CODDE-2018-11 | | | |

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SELECTION OF ENVIRONMENTAL IMPACTS

| | | | Raw material a | | | | | | | | | |
|---|-------------|-------------------------------------|-------------------|-------------|--------------|-------|--------------|-------|----------|-------------|-------------|-------|
| | Total for l | _ife cycle | manufacture | | Distribution | | Installation | | Use | | End of life | |
| Global warming | 1.22E+01 | kgCO ₂ eq. | 4.43E-01 | 4 % | 7.86E-03 | < 1 % | 2.00E-03 | < 1 % | 1.18E+01 | 96 % | 8.23E-03 | < 1 % |
| Ozone depletion | 7.97E-07 | kgCFC-11 eq. | 3.16E-08 | 4 % | 1.59E-11 | < 1 % | 1.75E-11 | < 1 % | 7.66E-07 | 96 % | 1.79E-10 | < 1 % |
| Acidification of soils and water | 5.00E-02 | kgSO ₂ eq. | 8.79E-04 | 2 % | 3.53E-05 | < 1 % | 9.17E-06 | < 1 % | 4.90E-02 | 98 % | 3.20E-05 | < 1 % |
| Water eutrophication | 4.44E-03 | kg(PO₄)³- eq. | 1.42E-03 | 32 % | 8.11E-06 | < 1 % | 7.59E-06 | < 1 % | 2.96E-03 | 67 % | 4.02E-05 | < 1 % |
| Photochemical ozone formation | 2.78E-03 | kgC ₂ H ₄ eq. | 8.31E-05 | 3 % | 2.51E-06 | < 1 % | 6.58E-07 | < 1 % | 2.69E-03 | 97 % | 2.48E-06 | < 1 % |
| Depletion of abiotic resources - elements | 1.02E-04 | kgSb eq. | 1.01E-04 | 99 % | 3.15E-10 | < 1 % | 9.25E-11 | < 1 % | 1.02E-06 | 1 % | 4.93E-10 | < 1 % |
| Total use of primary energy | 2.42E+02 | LМ | 7.11E+00 | 3 % | 1.11E-01 | < 1 % | 2.67E-02 | < 1 % | 2.35E+02 | 97 % | 9.24E-02 | < 1 % |
| Net use of fresh water | 4.26E+01 | m ³ | 2.98E-02 | < 1 % | 7.03E-07 | < 1 % | 6.93E-07 | < 1 % | 4.26E+01 | 100 % | 6.21E-06 | < 1 % |
| Depletion of abiotic resources - fossil fuels | 1.38E+02 | MJ | 4.66E+00 | 3 % | 1.10E-01 | < 1 % | 2.59E-02 | < 1 % | 1.33E+02 | 96 % | 8.42E-02 | < 1 % |
| Water pollution | 5.91E+02 | m ³ | 1.03E+02 | 17 % | 1.29E+00 | < 1 % | 3.01E-01 | < 1 % | 4.85E+02 | 82 % | 9.78E-01 | < 1 % |
| Air pollution | 6.57E+02 | m ³ | 1.50E+02 | 23 % | 3.22E-01 | < 1 % | 1.97E-01 | < 1 % | 5.06E+02 | 77 % | 8.73E-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. For the Cat No 7 824 63, 7 824 31, 7 824 61 the environmental impacts of each phase of the lifecycle are assimilated to the impacts of the Reference Product. For Cat No 7 824 37, 7 824 67 the environmental impacts of each phase of the lifecycle are obtained by applying the following coefficients on those of the Reference Product

| | SUM | Manufacturing | Distribution | Installation | Use | End of life |
|---|-----|---------------|--------------|--------------|-----|-------------|
| Global warming | 1.0 | 1.1 | | | | |
| Ozone depletion | 1.5 | 14.6 | | | | |
| Acidification of soils and water | 1.0 | 1.1 | | | | |
| Water eutrophication | 1.1 | 1.2 | | | | |
| Photochemical ozon creation | 1.0 | 1.1 | | | | |
| Depletion of abiotic resources - elements | 1.0 | 1.0 | 1.1 | 1.0 | 1.0 | 1.1 |
| Total use of primary energy during the life cycle | 1.0 | 1.1 | | | | |
| Net use of fresh water | 1.0 | 1.1 | | | | |
| Depletion of abiotic resources - fossil fuels | 1.0 | 1.1 | | | | |
| Water pollution | 1.0 | 1.1 | | | | |
| Air pollution | 1.0 | 1.0 | | | | |

| Registration number: LGRP-01463-V01.01-EN | Drafting rules: PEP-PCR-ed3-EN-2015 04 02 Supplemented by PSR-0005-ed2-2016 03 29 | | | |
|--|--|--|--|--|
| Verifier accreditation N°: VH23 | Information and reference documents: www.pep-ecopassport.org | | | |
| Date of issue: 07-2022 | Validity period: 5 years | | | |
| Independent verification of the declaration and data, in compl Internal 🛛 External 🗌 | liance with ISO 14025 : 2010 | | | |
| The PCR review was conducted by a panel of experts chaired | by Philippe Osset (SOLINNEN) | | | |
| PEP are compliant with XP C08-100-1 : 2016 The elements of the present PEP cannot be compared with el | ements from another program | | | |
| Document in compliance with ISO 14025 : 2010: «Environment Type III environmental declarations» | | | | |
| Environmental data in alignment with EN 15804: 2012 + A1 : 2 | 2013 | | | |