



Product Environmental Profile

Mosaic[™] 2 P+E Socket - French Standard





■ 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

| Function | | | ndards NFC-15100 and IEC 60884-1, with a ses) at 30% of rated load, with rated load not |
|-------------------|---------------------|------------------|---|
| Reference Product | | | |
| | Cat. No 0 771 11 | Cat. No 0 802 51 | Cat. No 0 788 02 |
| | 2 P+E socket outlet | Support frame | Plate |

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 products:

| Catalogue Numbers sockets | Catalogue Number support frame | Catalogue Number plate | |
|---------------------------|--------------------------------|------------------------|--|
| • 0 771 11 | • 0 802 51 | • 0 788 02 | |
| • 0 771 99 | | | |
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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 does not contain substances covered by the RoHS Directive (2002/95/EC and its revision 2011/65/EC). It contains none of the 138 substances in the candidate list of the REACH regulation dated 19/12/2012.

| Total weight of | |
|-------------------|----------------------------|
| Reference Product | 85 g (with unit packaging) |

| Plastics as % of weight | Metals as % of weight | | Other as % of weight | | |
|-------------------------|-----------------------|---------------|----------------------|---------------------------|--------|
| PC | 33.7 % | Steel | 22.8 % | | |
| ABS | 10.8 % | Copper alloys | 11.0 % | | |
| PA | 8.3 % | | | | |
| PET | 2.5 % | | | | |
| PE | 0.7 % | | | | |
| Various plastics | 0.2 % | | | Packaging as % of weight | |
| | | | | Paper | 10.0 % |
| | | | | | |
| Total plastics | 56.2 % | Total metals | 33.8 % | Total other and packaging | 10.0 % |

Estimated recycled material content: 19 % of weight.



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 450 km, by road from our warehouse to the local point of distribution into the market in France.

Packaging is compliant with European directive 2004/12/EC concerning packaging and packaging waste. At their end of life the recyclability rate is 100% (in % of packaging weight).



■ INSTALLATION ■

Installation components not delivered with the product are not taken into account.



USE CONTRACTOR

Servicing and maintenance:

under normal conditions of use, this type of product requires no servicing or maintenance.

Consumable

no consumables are necessary to use this type of product.





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■ END OF LIFE ■

Product end of life management is integrated into product design by the development teams. The disassembly and sorting of components or materials is made as easy as possible with a view to recycling or 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 prejudge the effective use of the channel for electrical and electronic products at the end of their life.

plastic materials (excluding packaging)
metal materials (excluding packaging)
other materials (excluding packaging)
packaging (all types of materials)
10 %



■ 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 of products marketed and used in France in compliance with NFC 15100 and associated product standards.

The following modelling elements were taken into account:

| Manufacture | Unit packaging taken into account. As required by the «PEP ecopassport» programme all transport 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 | Under normal conditions of use, this type of product requires no servicing or maintenance. No consumables are necessary to use this type of product Product category: passif. Use scenario: no continuous operation for 20 years at 30 % of rated load, during 30 % of the time. This modelling duration does not constitute a minimum durability requirement. Energy model: France - 2005. |
| End of life | In view of the data avalaible 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 data base «CODDE-2012-07». |



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■ ENVIRONMENTAL IMPACTS (continued)

| | | Total fo | or Life cycle | Raw material manufac | land | Distribu | ıtion | Installa | tion | Use | | End of | life |
|------------|------------------------------|----------|-------------------------------------|----------------------------|------|----------|-------|----------|------|----------|-----|----------|------|
| | Global warming | 1.35E+03 | g~CO ₂ eq. | 5.45E+02 | 40% | 4.50E+00 | < 1% | 0.00E+00 | 0% | 8.01E+02 | 59% | 4.19E+00 | < 1% |
| | Ozone depletion | 2.82E-04 | g~CFC-11 eq. | 2.19E-04 | 78% | 3.18E-06 | 1% | 0.00E+00 | 0% | 6.02E-05 | 21% | 7.95E-09 | < 1% |
| indicators | Water eutrophication | 1.03E-01 | g~PO₄³-eq. | 9.41E-02 | 91% | 7.48E-05 | < 1% | 0.00E+00 | 0% | 9.11E-03 | 9% | 7.80E-06 | < 1% |
| | Photochemical ozone creation | 5.43E-01 | g~C ₂ H ₄ eq. | 1.89E-01 | 35% | 3.90E-03 | < 1% | 0.00E+00 | 0% | 3.49E-01 | 64% | 9.35E-04 | < 1% |
| Mandatory | Air acidification | 2.35E-01 | g~H+ eq. | 9.25E-02 | 39% | 5.73E-04 | < 1% | 0.00E+00 | 0% | 1.41E-01 | 60% | 7.79E-04 | < 1% |
| | Total energy depletion | 8.77E+01 | МЛ | 8.76E+00 | 10% | 5.68E-02 | < 1% | 0.00E+00 | 0% | 7.89E+01 | 90% | 5.91E-02 | < 1% |
| | Water depletion | 1.95E+01 | dm³ | 4.43E+00 | 23% | 5.39E-03 | < 1% | 0.00E+00 | 0% | 1.50E+01 | 77% | 4.36E-04 | < 1% |

| lrs | Raw material depletion | 5.75E-16 | année ⁻¹ | 5.29E-16 | 92% | 7.75E-20 | < 1% | 0.00E+00 | 0% | 4.67E-17 | 8% | 8.57E-20 | < 1% |
|------------|----------------------------|----------|---------------------|----------|-----|----------|------|----------|----|----------|-----|----------|------|
| indicators | Air toxicity | 3.58E+05 | m³ | 1.80E+05 | 50% | 8.47E+02 | < 1% | 0.00E+00 | 0% | 1.76E+05 | 49% | 1.16E+03 | < 1% |
| onal | Water toxicity | 4.27E-01 | m³ | 2.89E-01 | 68% | 6.27E-04 | < 1% | 0.00E+00 | 0% | 1.35E-01 | 32% | 1.79E-03 | < 1% |
| Opti | Hazardous waste production | 1.90E-02 | kg | 9.43E-03 | 50% | 1.67E-06 | < 1% | 0.00E+00 | 0% | 9.61E-03 | 50% | 5.19E-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.

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-2014-048-V1-EN | | Drafting rule → PCR: PEP-PCR-ed 2.1-FR-2012 12 11 → PSR: PSR-0005-ed1-FR-2012 12 11 | | | | |
|---|--------------------------------|---|--|--|--|--|
| Authorisation number of checker: VH02 | Programme information: www.pep | Programme information: www.pep-ecopassport.org | | | | |
| Date of issue: 06-2014 | Validity period: 4 years | | | | | |
| Independent verification of the declaration and data, in ac Internal \square External \square | PEP | | | | | |
| In accordance with ISO 14025: 2006 Type III environmenta | eco | | | | | |
| The critical review of the PCR was conducted by a panel o | PASS | | | | | |
| The elements of the present PEP cannot be compared wit | PURI® | | | | | |