Wiremold
60 Woodlawn Street
West Hartford, CT 06110

1.877.BY.LEGRAND (295.3472)
www.legrand.us

# Product Environmental Profile

## Wiremold® Plugmold® 2000 Series™

## 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** | Distribute the electrical network to the workstation via multi outlets raceway with 10x20A sockets for 20 years. |
| **Reference Product** |  |
| | Cat. No. V20GB506TR (length 5ft) |
| | Low profile multiple outlet raceway |

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 environmenal data is representative of the following products (see extrapolation rule at the end of the document):

- **20GB series:** S20GB206, V20GB306, G20GB306, BK20GB306, WH20GB306, S20GB306, V20GB506, S20GB506, BK20GB506, WH20GB506, G20GB506, V20GB512, G20GB512, BK20GB512, WH20GB512, S20GB512, V20GB606,G20GB606, BK20GB606, WH20GB606, S20GB606, V20GB609, G20GB609, V20GB612, G20GB612, S20GB612, BK20GB612, WH20GB612, V20GB618, G20GB618
- **20GBTR(USB) series:** V20GB306TR(USB), G20GB306TR(USB),BK20GB306TR(USB), WH20GB306TR(USB), S20GB306TR(USB), V20GB506TR(USB), G20GB506TR(USB), BK20GB506TR(USB),WH20GB506TR(USB), S20GB506TR(USB), S20GB606TR(USB), V20GB606TR(USB), G20GB606TR(USB), BK20GB606TR(USB), WH20GB606TR(USB),
- **20IG series:** V20IG306, G20IG306, V20IG606, G20IG606
- **20GBA series:** V20GBA512, G20GBA512, V20IG512, G20IG512, V20GBA609, G20GBA609, V20GBA612, G20GBA612, V20GBA618, G20GBA618
- **20GBTRUSBA series:** V20GB509TRUSBA, G20GB509TRUSBA, BK20GB509TRUSBA, WH20GB509TRUSBA, S20GB509TRUSBA
- **PM36C, 20-C2**
- **PM48C**
- **20GBTRGFI series:** V20GB306TRGFI, G20GB306TRGFI,BK20GB306TRGFI, WH20GB306TRGFI, S20GB306TRGFI, V20GB506TRGFI, G20GB506TRGFI, BK20GB506TRGFI,WH20GB506TRGFI, S20GB506TRGFI, S20GB606TRGFI, V20GB606TRGFI, G20GB606TRGFI, BK20GB606TRGFI, WH20GB606TRGFI

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PEP ecopassport®

## 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/CE.

| | |
|---|---|
| **Total weight of Reference Product** | **70.91oz (2010.2g)** (with unit packaging) |

| **Plastics as % of weight** | | **Metals as % of weight** | | **Other as % of weight** | |
|---|---|---|---|---|---|
| PA | **6.4 %** | Steel | **49.8 %** | | |
| POM | **1.1 %** | Copper | **8.9 %** | | |
| PVC | **0.9 %** | | | **Packaging as % of weight** | |
| | | | | Wood | **24.1 %** |
| | | | | Paper | **7.4 %** |
| | | | | PE | **0.8 %** |
| **Total plastics** | **8.4 %** | **Total metals** | **58.7 %** | **Total other and packaging** | **32.4 %** |

Estimated recycled material content: 27 % by mass.

For GFCI protected Plugmold (XX20GBXXXTRGFI), use the table below regarding the constituent materials.

| | |
|---|---|
| **Total weight of Reference Product** | **72.06oz (2043.2g)** (with unit packaging) |

| **Plastics as % of weight** | | **Metals as % of weight** | | **Other as % of weight** | |
|---|---|---|---|---|---|
| PA | **6.8 %** | Steel | **49.3 %** | Electronic components | **0.5 %** |
| POM | **1.0 %** | Copper | **8.9 %** | | |
| PVC | **0.9 %** | | | **Packaging as % of weight** | |
| PET | **0.2 %** | | | Wood | **23.8 %** |
| PC | **< 0.1 %** | | | Paper | **7.3 %** |
| | | | | PE | **0.8 %** |
| **Total plastics** | **8.9 %** | **Total metals** | **58.2 %** | **Total other and packaging** | **32.4 %** |

Estimated recycled material content: 26 % by mass.

For Plugmold equipped with a USB charging system (XX20GBXXXTRUSBX) use the table below regarding the constituent materials.

| | |
|---|---|
| **Total weight of Reference Product** | **78.34oz (2221.1g)** (with unit packaging) |

| **Plastics as % of weight** | | **Metals as % of weight** | | **Other as % of weight** | |
|---|---|---|---|---|---|
| PA | **5.8 %** | Steel | **46.3 %** | Electronic components | **1.3 %** |
| PC | **3.0 %** | Copper | **11.6 %** | | |
| PVC | **1.3 %** | | | **Packaging as % of weight** | |
| POM | **1.0 %** | | | Wood | **21.8 %** |
| | | | | Paper | **6.7 %** |
| | | | | PE | **0.8 %** |
| **Total plastics** | **11.0 %** | **Total metals** | **57.9 %** | **Total other and packaging** | **30.8 %** |

Estimated recycled material content: 26 % by mass.

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## MANUFACTURE

This Reference Product comes from sites that have received ISO14001 certification.

## DISTRIBUTION

Products are distributed from logistics centers located to optimize transport efficiency using EPA SmartWay® certified carriers to reduce greenhouse gases emissions. The Reference Product is therefore transported over an average distance of 2175 miles by truck from our warehouse to the local point of distribution into the market in North America.

## INSTALLATION

For the installation of the product, only standard tools are needed.

## USE

**Servicing and maintenance :**
Under normal conditions of use, this product requires no servicing or maintenance.

**Consumables :**
No consumables are necessary to use the Reference Product.

## END OF LIFE

Development teams integrate product end-of-life factors in the design phase.

**Hazardous waste* contained in the product:** no hazardous waste
(*) Hazardous waste as defined by European Commission decision 2000/532/EC.

• **Recycling rate:**
Calculated using the method described in the IEC/TR 62635 technical report, the recyclability rate of the product is estimated as 94.9 %. 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:

- metal materials (excluding packaging) : 58.7 %
- plastic materials (excluding packaging) : 9.8 %
- packaging (all types of materials) : 30.4 %

## ENVIRONMENTAL IMPACTS

The evaluation of environmental impacts examines the stages of the Reference Product life cycle: manufacturing, distribution, installation, use and end-of-life. Ilt is representative from products marketed and used in North America.

For each phase, the following modelling elements were taken in account:

| | |
|---|---|
| **Manufacture** | Packaging taken into account. As required by the «PEP ecopassport» programme all transports for the manufactu-ring of the Reference Product, including materials and components, has been taken in account. The waste generated during manufacturing phase has been taken into account. |
| **Distribution** | Transport between the last Group distribution centre and an average delivery to the sales area |
| **Installation** | The end-of-life of the packaging is taken into account at this phase |
| **Use** | • Under normal conditions of use, this type of product requires no servicing or maintenance.<br>• No consumables are necessary to use this type of product.<br>• Product category: PSR0003-ed1.1-EN-2015_10_16-Cable_Management_Solutions §3.2.3.2. Pre-equipped service poles, service posts and multi-outlet extensions.<br>• Use scenario : non-continuous operation (30% of the time) for 20 years at 30% of rated load. This modelling duration does not constitute a minimum durability requirement.<br>• Energy model: Electricity Mix; United States - 2009. |
| **End of life** | The default end of life scenario maximizing the environmental impacts |
| **Software and database used** | EIME V5 and its database «CODDE-2015-04» and the indicators defined ine the PCR ed3 in alignment with the EN 15804 standard. |

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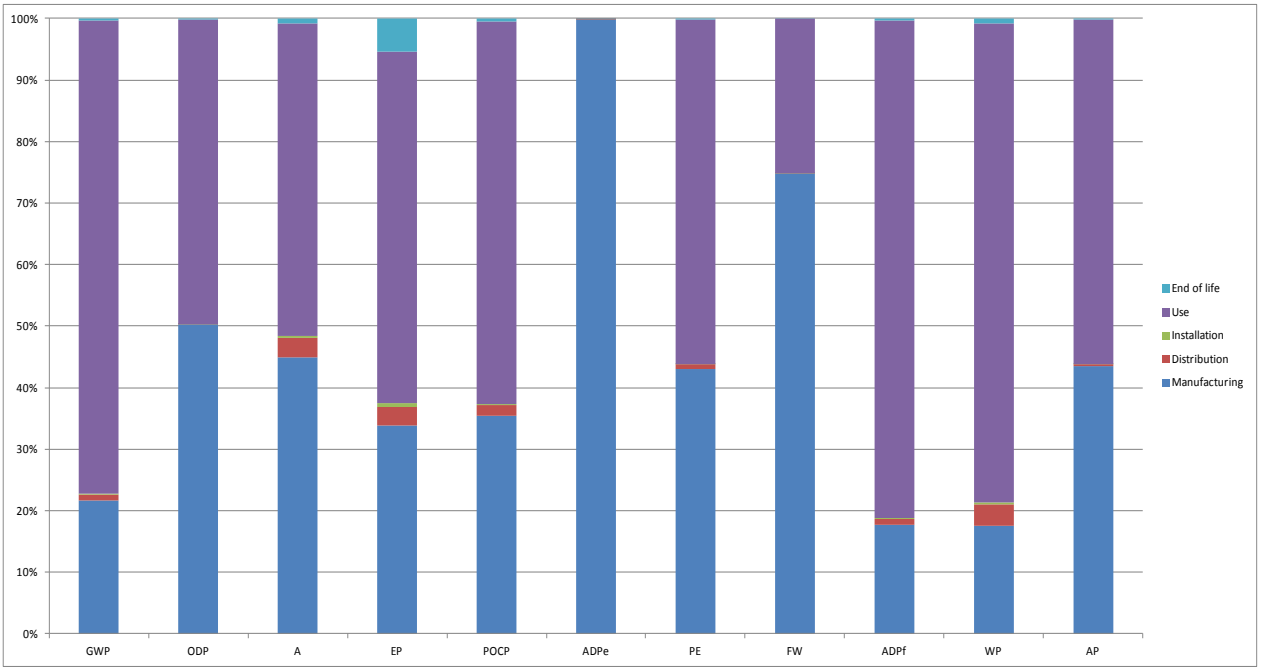
PEP ecopassport®

## SELECTION OF ENVIRONMENTAL IMPACTS

| | Total for Life cycle | | Raw material and manufacture | | Distribution | | Installation | | Use | | End of life | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Global warming** | **3.46E+01** | **kgCO2 eq.** | 7.48E+00 | **22%** | 3.50E-01 | **1%** | 3.34E-02 | **< 1%** | 2.66E+01 | **77%** | 9.60E-02 | **< 1%** |
| **Ozone depletion** | **9.74E-07** | **kgCFC-11 eq.** | 4.90E-07 | **50%** | 7.09E-10 | **< 1%** | 1.12E-10 | **< 1%** | 4.82E-07 | **50%** | 1.00E-09 | **< 1%** |
| **Acidification of soils and water** | **5.01E-02** | **kgSO2 eq.** | 2.25E-02 | **45%** | 1.57E-03 | **3%** | 1.54E-04 | **< 1%** | 2.55E-02 | **51%** | 3.98E-04 | **< 1%** |
| **Water eutrophication** | **1.17E-02** | **kg(PO4)3- eq.** | 3.97E-03 | **34%** | 3.62E-04 | **3%** | 7.39E-05 | **< 1%** | 6.71E-03 | **57%** | 6.24E-04 | **5%** |
| **Photochemical ozone formation** | **6.55E-03** | **kgC2H4 eq.** | 2.32E-03 | **35%** | 1.12E-04 | **2%** | 1.09E-05 | **< 1%** | 4.08E-03 | **62%** | 3.00E-05 | **< 1%** |
| **Depletion of abiotic resources - elements** | **2.95E-04** | **kgSb eq.** | 2.95E-04 | **100%** | 1.40E-08 | **< 1%** | 1.37E-09 | **< 1%** | 2.61E-07 | **< 1%** | 4.48E-09 | **< 1%** |
| **Total use of primary energy** | **6.40E+02** | **MJ** | 2.75E+02 | **43%** | 4.69E+00 | **< 1%** | 4.45E-01 | **< 1%** | 3.58E+02 | **56%** | 1.12E+00 | **< 1%** |
| **Net use of fresh water** | **1.87E-01** | **m3** | 1.40E-01 | **75%** | 3.13E-05 | **< 1%** | 5.06E-06 | **< 1%** | 4.70E-02 | **25%** | 3.72E-05 | **< 1%** |
| **Depletion of abiotic resources - fossil fuels** | **5.20E+02** | **MJ** | 9.24E+01 | **18%** | 4.92E+00 | **< 1%** | 4.68E-01 | **< 1%** | 4.21E+02 | **81%** | 1.28E+00 | **< 1%** |
| **Water pollution** | **1.68E+03** | **m3** | 2.95E+02 | **18%** | 5.76E+01 | **3%** | 5.40E+00 | **< 1%** | 1.31E+03 | **78%** | 1.31E+01 | **< 1%** |
| **Air pollution** | **4.03E+03** | **m3** | 1.75E+03 | **43%** | 1.44E+01 | **< 1%** | 2.16E+00 | **< 1%** | 2.26E+03 | **56%** | 6.68E+00 | **< 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.

## % ENVIRONMENTAL IMPACT PER LIFE CYCLE STAGE OF REFERENCE PRODUCT



All the raceways are made of painted metals. For all the colors, WH (white), BK (black), V (ivory), G (grey), S (silver), the environmentals impacts are the same. The environmental impacts for IG and GB wiring configuration are the same.
For all the different spacing between the outlets, the environnmental impacts should be considered the same for a fixed length of the product. The calculation has been made on a 6inch spacing which maximizes the impacts.
The two tables below can be combinated.
For WP* (Water Pollution) lines, only the impact on Water Pollution for the manufacturing phase must be multiply by this specific factor.

| | Manufacturing | | Distribution | Installation | Use | End of life |
|---|---|---|---|---|---|---|
| 20GB series | 1.0 | | 1.0 | 1.0 | 1.0 | 1.0 |
| 20GBA series | 1.3 | | 1.1 | 1.0 | 1.0 | 1.1 |
| PM36C/20-C2 | 4.9 | **WP*:** 12.6 | 0.9 | 1.3 | 1.8 | 1.3 |
| PM48C | 6.5 | **WP*:** 16.8 | 1.2 | 1.7 | 2.3 | 1.7 |
| 20GBTRGFI series | 2.0 | | 1.1 | 1.0 | 2.9 | 1.1 |
| 20GBTRUSB series | 1.3 | **WP*:** 2.8 | 1.1 | 1.0 | 17.5 | 1.2 |
| 20GBTRUSBA series | 1.6 | **WP*:** 2.9 | 1.1 | 1.0 | 18.1 | 1.4 |

The environmental impacts shown on the table above are based on the default length 5ft of the reference product.To extrapolate different lengths, multiply all the impacts by the scale factor corresponding to the desired length shown in the table below.

| Length (ft) | 2 | 3 | 5 (REF) | 6 |
|---|---|---|---|---|
| Ratio | 0.4 | 0.6 | 1.0 | 1.2 |

| | |
|---|---|
| Registration N°: LGRP-00574-V01.01-EN | Drafting rules: PEP-PCR-ed3-EN-2015 04 02<br>Supplemented by PSR0003-ed1.1-EN-2015_10_16 |
| Verifier accreditation N°: VH02 | Information and reference documents : **www.pep-ecopassport.org** |
| Date of issue: 12-2017 | Validity period: 5 years |
| Independent verification of the declaration and data, in compliance with ISO 14025:2010<br>Internal ☒ External ☐ | |
| The PCR review was conducted by a panel of experts chaired by Philippe Osset (SOLINNEN) | |
| PEP are compliant with XP C08-100-1: 2014<br>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 | |