



### 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

|                          |  |
|--------------------------|--|
| <b>Function</b>          | Call a nurse on a 40-bed service for a period of 10 years through a pear, a door block and a desk. The balance is reduced to 1 bed.  |
| <b>Reference Product</b> |  <p>Cat.Nos 0 766 07 - 0 766 11 - 0 766 09 - 0 782 81 - 0 782 46 - 0 782 82 - 0 782 84 - 0 782 47 - 0 782 48 - E46ADCN - 0 782 90 - 0 766 70 - 0 492 33 - 0 782 41 - 0 782 45 - 0 766 06 - The SYT cables are not taken into account.</p> <p>Nurse call system BUS / SCS (call only).</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 is representative of the following products:

| Cat.Nos  | Designation   |
|----------|---|
| 0 766 07 | DOOR UNIT MOSAIC-ALPHANUMERICAL DISPLAY-BUS/SCS-4 MODULES-ANTIMICROBIAL                     |
| 0 766 11 | MAIN CONTROL UNIT MOSAIC - FOR NURSES' STATION - 4 MODULES - ANTIMICROBIAL                  |
| 0 766 09 | SECONDARY CONTROL UNIT MOSAIC - FOR ROOM OR CORRIDOR - 4 MODULES - ANTIMICROBIAL            |
| 0 782 81 | HAND-HELD BUS/SCS REMOTE CONTROL UNIT FOR CALL ONLY   |
| 0 782 46 | SOCKET FOR HAND-HELD REMOTE CONTROL UNIT-NON INDEXED MAGNETIC CONNECTION                    |
| 0 782 82 | HAND-HELD BUS/SCS REMOTE CONTROL UNIT FOR CALL AND LIGHTING CONTROL                         |
| 0 782 84 | HAND-HELD BUS/SCS REMOTE CONTROL UNIT FOR CALL AND CONTROLLING LIGHTING AND ROLLER SHUTTERS |
| 0 782 47 | SOCKET FOR HAND-HELD REMOTE CONTROL UNIT - MAGNETIC CONNECTION                              |
| 0 782 48 | EJECTABLE CALL PULL CORD MOSAIC - FOR BATHROOM - 2 MODULES-WHITE ANTIMICROBIAL              |
| E46ADCN  | POWER SUPPLY - BUS TECHNOLOGY - FOR LIGHTING CONTROL SYSTEM - 8 DIN MODULES                 |
| 0 782 90 | SELV POWER SUPPLY - FOR OVERDOOR LIGHT UNITS WITH BULB OR LED - 6 MODULES                   |
| 0 766 70 | ROOM MICROPHONE MOSAIC - FOR ROOM AND NURSES'S STATION - ANTIMICROBIAL                      |
| 0 492 33 | LIGHTING MANAGEMENT - HALOGEN FREE CABLE - LENGTH 200 M                                     |
| 0 782 41 | SOCKET FOR HAND HELD REMOTE CONTROL UNIT-FOR CAT.NO 0 782 40-WHITE ANTIMICROBIAL            |
| 0 782 45 | SOCKET FOR HAND HELD REMOTE CONTROL UNIT-FOR CAT.NO 0 782 42/44-WHITE ANTIMICROBIAL         |
| 0 766 06 | DOOR UNIT MOSAIC-ILLUMINATED CALL INDICATORS-BUS/SCS-4 MODULES-ANTIMICROBIAL                |

The SYT cables are not taken into account.



### ■ 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.

| <b>Total weight of Reference Product</b> | <b>1914 g</b> (all packaging included) |                       |                   |                               |               |
|--|--|-----------------------|-------------------|-------------------------------|---------------|
| Plastics as % of weight                  |  | Metals as % of weight |                   | Other as % of weight          |               |
| PE                                       | <b>13.4 %</b>                          | Copper alloys         | <b>4.2 %</b>      | Electronic card               | <b>6.8 %</b>  |
| ABS                                      | <b>7.0 %</b>                           | Steel                 | <b>2.6 %</b>      | Electrical cables/wires       | <b>4.7 %</b>  |
| PC                                       | <b>5.7 %</b>                           | Other steel           | <b>1.1 %</b>      | LCD screen                    | <b>1.9 %</b>  |
| PVC                                      | <b>2.3 %</b>                           | Various metals        | <b>&lt; 0.1 %</b> | Various electronic components | <b>1.6 %</b>  |
| PA                                       | <b>0.8 %</b>                           |                       |                   |                               |               |
| Other plastic                            | <b>0.7 %</b>                           |                       |                   |                               |               |
| Various plastics                         | <b>0.6 %</b>                           |                       |                   |                               |               |
| Packaging as % of weight                 |  |                       |                   |                               |               |
| Other packaging plastics                 | <b>0.3 %</b>                           |                       |                   | Wood                          | <b>25.9 %</b> |
|  |  |                       |                   | Paper                         | <b>20.4 %</b> |
| <b>Total plastics</b>                    | <b>30.8 %</b>                          | <b>Total metals</b>   | <b>7.9 %</b>      | <b>Total others</b>           | <b>61.3 %</b> |

Estimated recycled material content: 20 % 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 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/EU concerning packaging and packaging waste. At their end of life, its recyclability rate is 97 % (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.



### END OF LIFE

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.

• **Elements to process specifically:**

In accordance with the requirements of this Directive, the following components must be removed and sent to specific channels for processing which comply with the WEEE Directive 2012/19/EU:

- electronic card: 137 g

• **Extended producer responsibility:**

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 87 %. 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 the end of life of this product.

Separated into:

- plastic materials (excluding packaging) : 28 %
- metal materials (excluding packaging) : 8 %
- other materials (excluding packaging) : 6 %
- packaging (all types of materials) : 45 %



### 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.

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

|                                   |  |
|-----------------------------------|--|
| <b>Manufacture</b>                | Materials and components of the product, all transport for the manufacturing, the packaging and the waste generated by the manufacturing.  |
| <b>Distribution</b>               | Transport between the last Group distribution centre and an average delivery point in the sales area.  |
| <b>Installation</b>               | The end of life of the packaging.  |
| <b>Use</b>                        | <ul style="list-style-type: none"> <li>• Product category: active product.</li> <li>• Use scenario: for a 10 years working life, in continuous operation at 100 % rated load, 1.4 W at 230 V<math>\sim</math> for 90 % of the time and 3.89 W the rest of the time. This modelling duration does not constitute a minimum durability requirement.</li> <li>• Energy model: Electricity Mix; Europe 27 - 2008.</li> </ul> |
| <b>End of life</b>                | The default end of life scenario maximizing the impacts.   |
| <b>Software and database used</b> | EIME & database CODDE-2016-11  |



### SELECTION OF ENVIRONMENTAL IMPACTS

|   | Total for Life cycle |  | Raw material and manufacture |       | Distribution |       | Installation |       | Use      |       | End of life |       |
|---|----------------------|--|------------------------------|-------|--------------|-------|--------------|-------|----------|-------|-------------|-------|
|   | Value                | Unit                                   | Value                        | %     | Value        | %     | Value        | %     | Value    | %     | Value       | %     |
| Global warming                                | 9.09E+01             | kgCO <sub>2</sub> eq.                  | 2.02E+01                     | 22 %  | 7.43E-02     | < 1 % | 5.22E-02     | < 1 % | 7.04E+01 | 78 %  | 1.20E-01    | < 1 % |
| Ozone depletion                               | 6.34E-06             | kgCFC-11 eq.                           | 1.75E-06                     | 28 %  | 1.51E-10     | < 1 % | 2.43E-10     | < 1 % | 4.59E-06 | 72 %  | 2.88E-09    | < 1 % |
| Acidification of soils and water              | 3.24E-01             | kgSO <sub>2</sub> eq.                  | 2.89E-02                     | 9 %   | 3.34E-04     | < 1 % | 2.45E-04     | < 1 % | 2.94E-01 | 91 %  | 4.62E-04    | < 1 % |
| Water eutrophication                          | 2.97E-02             | kg[PO <sub>4</sub> ] <sup>3-</sup> eq. | 1.11E-02                     | 38 %  | 7.67E-05     | < 1 % | 1.65E-04     | < 1 % | 1.77E-02 | 60 %  | 5.50E-04    | 2 %   |
| Photochemical ozone formation                 | 1.96E-02             | kgC <sub>2</sub> H <sub>4</sub> eq.    | 3.33E-03                     | 17 %  | 2.37E-05     | < 1 % | 1.73E-05     | < 1 % | 1.61E-02 | 83 %  | 3.59E-05    | < 1 % |
| Depletion of abiotic resources - elements     | 3.51E-03             | kgSb eq.                               | 3.50E-03                     | 100 % | 2.97E-09     | < 1 % | 2.19E-09     | < 1 % | 6.12E-06 | < 1 % | 7.51E-09    | < 1 % |
| Total use of primary energy                   | 1.74E+03             | MJ                                     | 3.31E+02                     | 19 %  | 1.05E+00     | < 1 % | 7.26E-01     | < 1 % | 1.41E+03 | 81 %  | 1.33E+00    | < 1 % |
| Net use of fresh water                        | 2.56E+02             | m <sup>3</sup>                         | 3.08E-01                     | < 1 % | 6.65E-06     | < 1 % | 1.09E-05     | < 1 % | 2.55E+02 | 100 % | 9.95E-05    | < 1 % |
| Depletion of abiotic resources - fossil fuels | 1.08E+03             | MJ                                     | 2.82E+02                     | 26 %  | 1.04E+00     | < 1 % | 7.30E-01     | < 1 % | 8.00E+02 | 74 %  | 1.71E+00    | < 1 % |
| Water pollution                               | 5.02E+03             | m <sup>3</sup>                         | 2.08E+03                     | 41 %  | 1.22E+01     | < 1 % | 8.31E+00     | < 1 % | 2.91E+03 | 58 %  | 1.39E+01    | < 1 % |
| Air pollution                                 | 5.58E+03             | m <sup>3</sup>                         | 2.53E+03                     | 45 %  | 3.05E+00     | < 1 % | 4.37E+00     | < 1 % | 3.03E+03 | 54 %  | 1.36E+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.

|   |   |
|---|---|
| Registration N°: LGRP-00587-V02.01-EN   | Drafting rules: «PEP-PCR-ed3-EN-2015 04 02»<br>Supplemented by «PSR-0005-ed2-2016 03 29»                  |
| Verifier accreditation N°: VH23   | Information and reference documents: <a href="http://www.pep-ecopassport.org">www.pep-ecopassport.org</a> |
| Date of issue: 12-2018  | Validity period: 5 years  |
| Independent verification of the declaration and data, in compliance with ISO 14025 : 2010<br>Internal <input checked="" type="checkbox"/> External <input type="checkbox"/> |   |
| 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.<br>Type III environmental declarations»   |   |
| Environmental data in alignment with EN 15804: 2012 + A1 : 2013   |   |

