

# Product Environmental Profile

## Evolution™ Series Recessed and Furniture Feed Poke-Thru Devices



### 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>  | Distribute the power, communications , and audio video services to the open spaces via 2x 20A duplex power receptacles wiring accessories for 20 years. |
| <b>Reference products</b>  |    |
| Cat. No. 8ATCPBK   |   |
| Evolution 8ATCP Series Recessed Prewired Assembly with Surface Style Cover |   |

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

8ATCPGY, 8ATCPBS, 8ATCPBZ, 8ATCPNK, 6ATCPBK, 6ATCPBS, 6ATCPBZ, 6ATCPGY, 6ATCPNK, 6ATCFFBK, 6ATCFFBS, 6ATCFFBZ, 6ATCFFNK, 6ATCFFGY

# Product Environmental Profile

## Evolution™ Series Recessed and Furniture Feed Poke-Thru Devices



### ■ CONSTITUENT MATERIALS

This Reference Product contains no substances prohibited by the regulations applicable at the time of its introduction to the market.

|  |                                     |
|--|-------------------------------------|
| <b>Total weight of Reference Product</b> | <b>219 oz</b> (with unit packaging) |
|--|-------------------------------------|

| Plastics as % of weight |               | Metals as % of weight |               | Other as % of weight             |               |
|-------------------------|---------------|-----------------------|---------------|----------------------------------|---------------|
| Other plastics          | <b>24.3 %</b> | Steel                 | <b>33.8 %</b> | Cables/Wires                     | <b>1.5 %</b>  |
| Polyethylene            | <b>1.8 %</b>  | Aluminum              | <b>13.1 %</b> |                                  |               |
| Polyvinyl chloride      | <b>1.2 %</b>  | Copper alloys         | <b>1.0 %</b>  |                                  |               |
| Polyamide               | <b>0.5 %</b>  | Other Metals          | <b>0.7 %</b>  |                                  |               |
| Polycarbonates          | <b>0.4 %</b>  | Zamak                 | <b>0.7 %</b>  |                                  |               |
| Polyurethane            | <b>0.2 %</b>  |                       |               | Packaging as % of weight         |               |
|                         |               |                       |               | Paper                            | <b>20.9 %</b> |
| <b>Total plastics</b>   | <b>28.4 %</b> | <b>Total metals</b>   | <b>49.2 %</b> | <b>Total other and packaging</b> | <b>22.4 %</b> |

Estimated recycled material content: 40% by weight.



### ■ MANUFACTURE

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



### ■ DISTRIBUTION

Products are distributed from logistics centres located with a view to optimize transport efficiency. Relevant distribution information is not available so the «Intercontinental transport» PCR hypothesis was used that means that the product is transported over an average distance of 2175 miles by truck in North America.



### ■ INSTALLATION

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

The drilling of a hole was taken into account but the add of silicone not provided with the product wasn't taken into account according to the PSR 0003 page 5 paragraph 3.2.



### ■ USE

**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.



### END OF LIFE

• **Non-hazardous waste contained in the product:** 0 oz

• **Recycling rate:**

Calculated using the method described in the IEC/TR 62635 technical report, the recyclability rate of the product is estimated as 75%. 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) : 4%
- Metal materials (excluding packaging) : 49%
- Others materials (excluding packaging) : 1%
- Packaging materials (all types of materials) : 21%



### 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 North America

The following modelling elements were taken in account:

|                      |   |
|----------------------|---|
| <b>Manufacture</b>   | Unit packaging taken in 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 distribution center 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: Cable management solution / Family 3, "Column, Pole and outlet box assemblies"</li> <li>• Use scenario: non-continuous operation for 20 years at 30% of rated load of the time. This modelling duration does not constitute a minimum durability requirement</li> <li>• Energy model: Electricity (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 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"  |

# Product Environmental Profile

## Evolution™ Series Recessed and Furniture Feed Poke-Thru Devices



### ENVIRONMENTAL IMPACTS (continued)

|                      |                              | Total for Life cycle |              | Raw material and manufacture |     | Distribution |     | Installation |      | Use      |      | End of life |      |
|----------------------|------------------------------|----------------------|--------------|------------------------------|-----|--------------|-----|--------------|------|----------|------|-------------|------|
|                      |                              |                      |              |                              |     |              |     |              |      |          |      |             |      |
| Mandatory indicators | Global warming               | 3.37E+04             | g~CO2 eq.    | 3.03E+04                     | 90% | 2.59E+03     | 8%  | 2.78E+02     | < 1% | 2.19E+02 | < 1% | 3.10E+02    | < 1% |
|                      | Ozone depletion              | 6.60E-03             | g~CFC-11 eq. | 4.76E-03                     | 72% | 1.83E-03     | 28% | 5.01E-06     | < 1% | 3.95E-06 | < 1% | 5.89E-07    | < 1% |
|                      | Water eutrophication         | 2.75E+00             | g~PO43- eq.  | 2.70E+00                     | 98% | 4.30E-02     | 2%  | 8.89E-04     | < 1% | 7.01E-04 | < 1% | 5.77E-04    | < 1% |
|                      | Photochemical ozone creation | 1.44E+01             | g~C2H4 eq.   | 1.20E+01                     | 83% | 2.24E+00     | 16% | 5.04E-02     | < 1% | 3.97E-02 | < 1% | 6.92E-02    | < 1% |
|                      | Air acidification            | 6.05E+00             | g~H+ eq.     | 5.58E+00                     | 92% | 3.29E-01     | 5%  | 4.73E-02     | < 1% | 3.73E-02 | < 1% | 5.77E-02    | < 1% |
|                      | Total energy depletion       | 5.92E+02             | MJ           | 5.49E+02                     | 93% | 3.27E+01     | 6%  | 3.61E+00     | < 1% | 2.85E+00 | < 1% | 4.38E+00    | < 1% |
|                      | Water depletion              | 2.07E+02             | dm3          | 2.03E+02                     | 98% | 3.10E+00     | 2%  | 4.89E-01     | < 1% | 3.86E-01 | < 1% | 3.22E-02    | < 1% |

|                     |                            |          |         |          |     |          |      |          |      |          |      |          |      |
|---------------------|----------------------------|----------|---------|----------|-----|----------|------|----------|------|----------|------|----------|------|
| Optional indicators | Raw material depletion     | 7.87E-15 | year -1 | 7.81E-15 | 99% | 4.45E-17 | < 1% | 4.10E-18 | < 1% | 3.24E-18 | < 1% | 6.35E-18 | < 1% |
|                     | Air toxicity               | 8.51E+06 | m3      | 7.84E+06 | 92% | 4.87E+05 | 6%   | 5.58E+04 | < 1% | 4.40E+04 | < 1% | 8.58E+04 | 1%   |
|                     | Water toxicity             | 1.15E+01 | m3      | 1.10E+01 | 95% | 3.60E-01 | 3%   | 2.08E-02 | < 1% | 1.64E-02 | < 1% | 1.33E-01 | 1%   |
|                     | Hazardous waste production | 2.06E+00 | kg      | 2.05E+00 | 99% | 9.61E-04 | < 1% | 5.83E-03 | < 1% | 4.60E-03 | < 1% | 3.84E-07 | < 1% |

The environmental impacts of the Reference Product are representative of the products covered by the PEP, which therefore constitute a homogeneous environmental family. Their impacts are the same for all the 8IN recessed Poke-Thru. For the 6IN recessed Poke-Thru (6ATCP) and the 6IN furniture feed Poke-Thru (6ATCFF) you need to multiply all the indicators by 0.8 for the Manufacturing, Distribution and End of life. For the Installation of both and only the use for the 6IN recessed Poke-Thru, take the same values than for the 8IN Poke-Thru. For the 6IN furniture feed Poke-Thru, the Use phase is null.

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-2014-155-v1-en  | Drafting rule: PEP-PCR-ed 2.1-FR-2012 12 11 and PSR0003-ed1-EN-2012 02 02                   |
| Authorisation number of checker: VH02   | Programme information: <a href="http://www.pep-ecopassport.org">www.pep-ecopassport.org</a> |
| Date of issue: 11-2014  | Validity period: 4 years  |
| Independent verification of the declaration and data, in accordance with ISO 14025:2006<br>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   |   |

