

Product Environmental Profile

Evolution™ 4ATC Prewired Series Poke-Thru Devices



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.).

For more information on Legrand's PEPs and other sustainability initiatives, visit www.legrand.us/about-us/csr/circular-economy



REFERENCE PRODUCT

| | |
|-------------------|--|
| Function | Distribute the energy and communication networks to the workstation via 2x 20A duplex wiring accessories for 20 years. |
| Reference Product |  |
| | Part Number: 4ATCP2RBK |
| | Recessed Prewired Surface Style Poke-Thru Assembly |



PRODUCTS CONCERNED

The environmental data is representative of the following products:

- 4ATCP2RXX
- 4ATCP2CRXX
- 4ATCP4RXX

(XX= color option of BK, BS, GY, AL, BZ, NK)

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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 | | 3.34 kg | | | |
|-----------------------------------|--------|--------------------------|--------|---------------------------|--------|
| Plastics as % of weight | | Metals as % of weight | | Others as % of weight | |
| Product only: 2.25 kg | | | | | |
| PP | 5.5 % | Steel | 37.0 % | Various Plastic Additives | 7.8 % |
| PE | 2.4 % | Aluminum | 8.7 % | | |
| PVC | 1.1 % | Zamak | 1.2 % | | |
| Rubber | 0.7 % | Copper and Copper Alloys | 1.4 % | | |
| PC | 0.5 % | Other Metals | 0.6 % | | |
| PU | 0.1% | | | | |
| Packaging only: 1.09 kg | | | | | |
| PE | 0.1 % | | | Cardboard | 20.4 % |
| | | | | Wood | 11.6 % |
| | | | | Paper | 0.9 % |
| Total plastics | 10.3 % | Total metals | 48.9 % | Total others | 40.8 % |

Recycled material content: 12 % by weight of Reference Product

- Product only : 12 %
- Packaging only: 0 %



■ MANUFACTURING

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. Information on the distance of distribution is not available so the PCR hypothesis for "Intracontinental transport", 2175 miles (3500 km) by heavy truck, was used. This represents transportation of the Reference Product from our warehouse to the local point of distribution in the North American market.



■ INSTALLATION

For the installation of the product, energy use related to the drilling into the floor was taken into account during modeling.



■ USE

Under normal conditions of use, this product requires no servicing, no maintenance or additional products.

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END OF LIFE

The product end of life is 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.

• Elements to process specifically:

The following may be subject to specific treatments in appropriate channels to reduce the environmental impact of the end of product life:

- waste list WEEE
- hazardous waste list*

(*) Hazardous waste as defined by European Commission decision 2000/532/EU.



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 North America.

For each stage, the following modelling elements were taken into account at each life cycle stage (and module):

| | | |
|-----------------------------|--|---|
| System Boundary | Manufacturing (A1-A3) | Materials and components of the product, all transport for the manufacturing, the packaging and the waste generated by the manufacturing. |
| | Distribution (A4) | Transport between the last distribution center and an average delivery point in the sales area. |
| | Installation (A5) | The end of life of the packaging. |
| | Use (B1-B7) | <ul style="list-style-type: none"> • Product category: Pre-equipped Service Poles, Service Posts, Multi-Outlet Extensions and Floor Boxes. • Use scenario: Non-continuous operation for 20 years at 30% of rated load, during 30% of the time. The modelling duration does not constitute a minimum durability requirement. • Energy model: Electricity Mix (U.S) - 2018 |
| | End of life (C1-C4) | The default end of life scenario modelled maximizes the environmental impact using the PCR hypothesis for "Local transport": 621 miles (1000 km) by heavy truck and landfilling. |
| Benefits & Loads (Module D) | Module D is calculated according to PCR-ed4-EN-2021 09 06 based on the materials recycled and the modelled end-of-life scenario. It expresses the net benefits and loads beyond the boundaries of the system, and are not to be included in the life cycle totals. | |
| Software and data-base used | EIME V6 and its CODDE-2023-02 database | |

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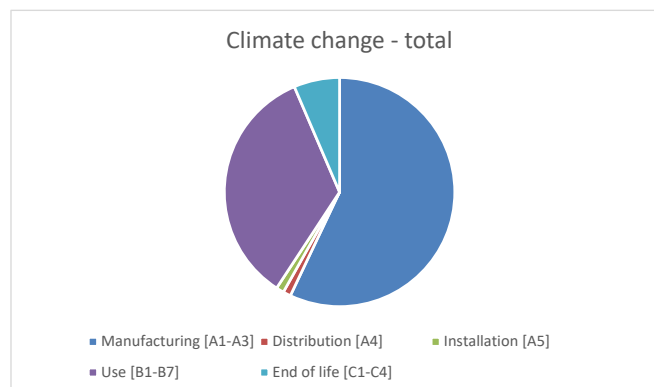


ENVIRONMENTAL IMPACTS

| Environmental Impact Indicators | | Total Life Cycle Impacts | | Manufacturing | Distribution | Installation | Use | End of Life | Benefits & Loads |
|---|-------|--------------------------|------------------------------------|---------------|--------------|--------------|----------|-------------|------------------|
| | | | | A1-A3 | A4 | A5 | B1-B7 | C1-C4 | Module D |
| Climate change - total | GWP | 9.75E+01 | kg CO2 eq. | 3.09E+01 | 5.89E-01 | 1.65E+00 | 1.86E+01 | 3.48E+00 | -6.51E+00 |
| Climate change - fossil fuels | GWPf | 9.31E+01 | kg CO2 eq. | 2.98E+01 | 5.89E-01 | 3.24E-01 | 1.86E+01 | 3.47E+00 | -6.43E+00 |
| Climate change - biogenics | GWPb | 4.37E+00 | kg CO2 eq. | 1.04E+00 | 0.00E+00 | 1.32E+00 | 1.97E-02 | 3.12E-03 | -7.69E-02 |
| Climate change - land use and land use transformation | GWPlu | 2.49E-05 | kg CO2 eq. | 2.60E-05 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.14E-07 | 0.00E+00 |
| Ozone depletion | ODP | 5.95E-07 | kg.equivalent.CFC-11 | 1.48E-06 | 9.02E-10 | 2.28E-09 | 7.91E-08 | 4.00E-08 | -4.26E-07 |
| Acidification | AP | 4.53E-01 | mole of H+ equiv | 1.87E-01 | 3.73E-03 | 1.79E-03 | 9.85E-02 | 1.00E-02 | -3.55E-02 |
| Eutrophication, freshwater | Epf | 1.38E-04 | kg P eq. | 1.57E-04 | 2.21E-07 | 3.68E-07 | 2.87E-05 | 9.10E-05 | -1.45E-05 |
| Eutrophication aquatique, marine | Epm | 1.40E-01 | kg of N equiv | 3.64E-02 | 1.75E-03 | 4.14E-04 | 1.17E-02 | 1.79E-03 | -4.03E-03 |
| Eutrophication, terrestrial | Ept | 1.53E+00 | mole of N equiv | 3.99E-01 | 1.92E-02 | 4.93E-03 | 1.38E-01 | 1.99E-02 | -4.40E-02 |
| Photochemical ozone formation | POCP | 4.28E-01 | kg of NMVOC equiv | 1.12E-01 | 4.83E-03 | 1.20E-03 | 3.88E-02 | 7.01E-03 | -1.58E-02 |
| Abiotic resource depletion – elements | ADPe | 2.28E-04 | kg.equivalent.Sb | 1.51E-04 | 2.32E-08 | 0* | 7.51E-07 | 0* | -3.29E-05 |
| Abiotic resource depletion – fossil fuels | ADPf | 5.16E+03 | MJ | 8.56E+02 | 8.21E+00 | 5.81E+00 | 3.95E+02 | 2.07E+02 | -3.59E+02 |
| Water use | WU | 2.61E+01 | m3 of equiv. deprivation worldwide | 6.33E+00 | 2.24E-03 | 1.86E-01 | 6.68E-01 | 1.36E+00 | -2.25E+00 |

The values of the indicators defined in the PCR-ed4-EN-2021 09 06 are available in the digital database of pep-ecopassport.org website.

The environmental impact of the Reference Product occurs predominantly during the manufacturing stage.



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ENVIRONMENTAL IMPACTS

| Inventory Flow Indicators | | Total Life Cycle Impacts | | Manufacturing | Distribution | Installation | Use | End of Life | Benefits & Loads |
|---|-------|--------------------------|---------------------|---------------|--------------|--------------|----------|-------------|------------------|
| | | | | A1-A3 | A4 | A5 | B1-B7 | C1-C4 | Module D |
| Use of renewable primary energy, excluding renewable primary energy resources used as raw materials | ERP | 7.13E+00 | MJ | 3.32E+01 | 1.10E-02 | 5.42E-01 | 4.95E+01 | 1.08E-01 | -2.04E+00 |
| Use of renewable primary energy resources used as raw materials | ERM | 6.03E+01 | MJ | 2.24E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Total use of renewable primary energy resources | ER | 5.31E+01 | MJ | 5.56E+01 | 1.10E-02 | 5.42E-01 | 4.95E+01 | 1.08E-01 | -2.04E+00 |
| Use of non-renewable primary energy, excluding non-renewable primary energy resources used as raw materials | ENRP | 5.15E+03 | MJ | 8.40E+02 | 8.21E+00 | 5.81E+00 | 3.95E+02 | 2.07E+02 | -3.57E+02 |
| Use of non-renewable primary energy resources used as raw materials | ENRM | 1.66E+01 | MJ | 1.58E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | -1.58E+00 |
| Total use of non-renewable primary energy resources | ENR | 5.16E+03 | MJ | 8.56E+02 | 8.21E+00 | 5.81E+00 | 3.95E+02 | 2.07E+02 | -3.59E+02 |
| Use of secondary materials | USM | 4.22E+00 | kg | 5.27E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Use of renewable secondary fuels | URSF | 0.00E+00 | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Use of non-renewable secondary fuels | | 0.00E+00 | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Net use of fresh water | NUFW | 6.08E-01 | m3 | 1.48E-01 | 5.20E-05 | 4.32E-03 | 1.56E-02 | 3.17E-02 | -5.25E-02 |
| Hazardous waste disposed | HWD | 8.58E+00 | kg | 4.68E+00 | 0.00E+00 | 2.50E-03 | 3.64E-01 | 1.61E+00 | -1.92E+00 |
| Non-hazardous waste disposed | NHWD | 2.81E+00 | kg | 3.13E+01 | 2.07E-02 | 1.20E+00 | 2.75E+00 | 0* | -5.08E+00 |
| Radioactive waste disposed | RWD | 2.63E-03 | kg | 2.16E-02 | 1.47E-05 | 2.76E-05 | 5.18E-04 | 3.00E-04 | -4.07E-03 |
| Components for re-use | CRU | 0.00E+00 | kg | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Materials for recycling | MRE | 1.00E+01 | kg | 3.97E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.25E+00 | 0.00E+00 |
| Materials for energy recovery | MER | 0.00E+00 | kg | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Exported energy | EE | 0.00E+00 | MJ by energy vector | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Biogenic carbon content of the product | BCpdt | 0.00E+00 | kg of C. | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Biogenic carbon content of the associated packaging | BCpkg | 8.49E-01 | kg of C. | 3.47E-01 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

In accordance with the PCR, the "Benefits & Loads" are beyond the system boundary and are thus not included in the results of "Total Life Cycle Impacts".

The values of the indicators defined in the PCR-ed4-EN-2021 09 06 are available in the digital database of pep-ecopassport.org website.

*Represents less than 0.01% of the total life cycle of the reference flow.

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ENVIRONMENTAL IMPACTS

For other products listed, the environmental impacts are as follows:

| Part # | Manufacturing | Distribution | Installation | Use | End of Life | Module D |
|------------|---------------|--------------|--------------|-----|-------------|----------|
| 4ATCP2RXX | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 4ATCP2CRXX | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 4ATCP4RXX | 1.0 | 1.0 | 1.0 | 2.0 | 1.0 | 1.1 |

| | |
|--|---|
| Registration number: LGRP-00639-V02.01-EN | Drafting rules: "PEP-PCR-ed4-EN-2021 09 06" Supplemented by "PSR-0003-ed2-EN-2023 06 06" |
| Verifier accreditation number: VH44 | Information and reference documents: www.pep-ecopassport.org |
| Date of issue: 12-2023 | Validity period: 5 years |
| Independent verification of the declaration and data in compliance with ISO 14025:2006 Internal <input type="checkbox"/> External <input checked="" type="checkbox"/> | |
| The PCR review was conducted by a panel of experts chaired by Julie ORGELET (DDemain) | |
| PEP in compliance with XP C08-100-1:2016 or EN 50693:2019 | |
| The content of this PEP cannot be compared with content from any other program. | |
| PEP compliant with ISO 14025:2006: "Environmental labels and declarations - Type III environmental declarations" | |



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|---|
| LCA compliant with ISO 14040:2006: "Environmental management – LCA – Principles and framework" |
| LCA compliant with ISO 14044:2006: "Environmental management – LCA – Requirements and guidelines" |
| Environmental data in alignment with EN 15804:2012 + A2:2019: "Sustainability of construction works - EPD's - Core rules for the product category of construction products" |