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Product Environmental Profile

Direct clipping and universal columns Aluminium body and PVC covers

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	Connect a workstation remote from the wall to the energy and communication networks for 20 years, via 20 modules Mosaic or Arteor sockets outlets wiring accessories (10 per face).	
Reference Product		
	Cat.No 653033	Cat.No 603857
	Column direct clipping 2 compartments 3,92m white with Fixing clip - for Mosaic and Arteor white finish functions	

PRODUCTS CONCERNED

The environmental data is representative of the following products:

the full direct clipping and universal colomn-aluminium body and PVC covers, as presented in all relevant catalogues - details available on request from customer service team.

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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	**15.60 kg** (all packaging included)

Product alone weight 12.32 kg					
Plastics as % of weight		**Metals as % of weight**		**Other as % of weight**	
PVC	**41.8%**	Aluminium	**32.9%**	Electrical wire (high current)	**<0.1%**
ABS	**2.0%**	Steel	**2.3%**		

Packaging (alone) : 3.28 kg					
PE	**0.5%**			Cardboard	**14.1%**
PVC	**0.4%**			Wood	**5.8%**
PP	**0.2%**			Paper	**<0.1%**
PET	**<0.1%**				

Total plastics : 6.84 kg	**44.9 %**	**Total metals : 5.48 kg**	**35.2 %**	**Total others : 3.28 kg**	**19.9 %**

At the date of edition of this document, the content of recycled material(s) is :

- Product alone (excluding packaging): 31% by mass
- Packaging only: 60% by mass

MANUFACTURE

This Reference Product comes from sites that have received ISO14001 certification.
The final assembly site is located at Sillé-le-Guillaume, France.

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 794 km by truck, 988 km by boat and 69 km by plane from our warehouse to the local point of distribution into the market all around the world.

Packaging is compliant with european directive 2004/12/EU concerning packaging and packaging waste.

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.

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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.

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 an electrical installation in compliance with NF C 15100 and associated product standards.
The datasets collected in this PEP are representative of the year 2024.

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

System Limit	**Manufacture 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 Group distribution centre and an average delivery point in the sales area.
	Installation A5	The end of life of the packaging.
	Use B1-B7	▪ Product category: PSR-0003-ed2.1-FR-2023 12 08 §3.4.1.1.1. Non-equipped service poles, service posts, multi-outlets extensions and floor boxes. ▪ Use scenario: no energy consumption during the 20 years working life. This modelling duration does not constitute a minimum durabilty requirement. . ▪ Energy model: Electricty Mix_Low voltage_2018_Europe_EU-27.
	End of life C1-C4	Choice of end-of-life by default model for PCR-ed4-EN-2021 09 06.
D Module		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 burdens beyond the boundaries of the system, and are not to be included in the life cycle totals.
Software and database used		The set of indicators used is Indicators for PEF EF 3.0 (compliant: PEP ed.4, EN15804+A2) v2.0 EIME V6 and its database 2024-06-11.

Unless otherwise indicated the modelling energetic mix are those integrated in the data modules used from the aformentioned database.

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ENVIRONMENTAL IMPACTS

	Total Life Cycle		Manufacturing	Distribution	Installation	Use[1]			End of Life	Module D
			A1-A3	A4	A5	Total B1-B7	B2	B6	C1-C4	
Climate change - total	**8,07E+01**	**kg CO2 eq.**	6,49E+01	3,06E+00	5,96E+00	0	0	0	6,78E+00	1,18E+00
Climate change - fossil fuels	**7,89E+01**	**kg CO2 eq.**	6,79E+01	3,06E+00	1,19E+00	0	0	0	6,77E+00	3,80E+00
Climate change - biogenics	**1,79E+00**	**kg CO2 eq.**	-3,00E+00	0*	4,78E+00	0	0	0	7,66E-03	-2,61E+00
Climate change - land use and land use transformation	**3,75E-09**	**kg CO2 eq.**	6,71E-10	0*	0*	0	0	0	3,08E-09	0*
Ozone depletion	**1,18E-05**	**kg.equivalent. CFC-11**	1,14E-05	3,80E-09	4,22E-08	0	0	0	4,22E-07	5,64E-07
Acidification (AP)	**4,52E-01**	**mole of H+ equiv**	3,83E-01	2,14E-02	7,13E-03	0	0	0	4,02E-02	3,21E-02
Freshwater eutrophication	**5,25E-04**	**kg P eq.**	5,13E-04	1,09E-06	9,36E-07	0	0	0	9,34E-06	5,15E-05
Marine aquatic eutrophication	**7,32E-02**	**kg of N equiv**	5,37E-02	7,88E-03	1,73E-03	0	0	0	9,93E-03	5,03E-03
Terrestrial eutrophication	**8,09E-01**	**mole of N equiv**	5,75E-01	8,64E-02	2,27E-02	0	0	0	1,24E-01	4,51E-02
Photochemical ozone formation	**2,42E-01**	**kg of NMVOC equiv**	1,85E-01	2,15E-02	4,87E-03	0	0	0	3,00E-02	1,22E-02
Depletion of abiotic resources - elements	**6,03E-05**	**kg.equivalent. Sb**	5,96E-05	1,20E-07	8,57E-08	0	0	0	5,43E-07	-5,59E-06
Depletion of abiotic resources - fossil fuels	**1,59E+03**	**MJ**	1,36E+03	4,24E+01	2,20E+01	0	0	0	1,69E+02	-9,57E+00
Water requirement	**1,33E+02**	**m3 of equiv. deprivation worldwide**	1,32E+02	0*	5,00E-02	0	0	0	6,56E-01	6,82E-01
Emission of fine particles	**3,17E-06**	**incidence of diseases**	2,73E-06	1,32E-07	4,94E-08	0	0	0	2,60E-07	2,40E-07

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

[1] For the Use phase and according to the current PCR, the information modules B1, B3, B4, B5 and B7, all having indicator values equal to «0» (zero), are not listed in this table

In accordance with current PCR rules, the environmental indicator values in the «Module D» column must not be summed with the values in the «Total Life Cycle» column

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	Total Life Cycle		Manufacturing	Distribution	Installation	Use[1]			End of Life	Module D
			A1-A3	A4	A5	Total B1-B7	B2	B6	C1-C4	
Ionizing radiation, human health	**3,58E+02**	**kBq of U235 equiv.**	3,56E+02	0*	4,95E-01	0	0	0	1,63E+00	1,76E+00
Ecotoxicity (fresh water)	**7,35E+02**	**CTUe**	5,74E+02	1,95E+00	2,88E+01	0	0	0	1,31E+02	6,65E+01
Human toxicity, carcinogenic effects	**6,87E-07**	**CTUh**	6,86E-07	0*	2,14E-10	0	0	0	1,48E-09	3,79E-07
Human toxicity, non-carcinogenic effects	**7,54E-07**	**CTUh**	6,76E-07	9,05E-10	8,77E-09	0	0	0	6,84E-08	9,21E-09
Impacts related to land use/soil quality	**7,22E+00**	**-**	7,10E+00	0*	2,30E-02	0	0	0	9,60E-02	0*
Use of renewable primary energy, excluding renewable primary energy resources used as raw materials	**6,25E+01**	**MJ**	5,62E+01	4,98E-02	1,66E+00	0	0	0	4,62E+00	-5,01E+00
Use of renewable primary energy resources used as raw materials	**3,59E+01**	**MJ**	3,59E+01	0*	0*	0	0	0	0*	3,40E+01
Total use of renewable primary energy resources (primary energy and primary energy resources used as raw materials)	**9,84E+01**	**MJ**	9,21E+01	4,98E-02	1,66E+00	0	0	0	4,62E+00	2,90E+01
Use of non-renewable primary energy, excluding non-renewable primary energy resources used as raw materials	**1,45E+03**	**MJ**	1,21E+03	4,24E+01	2,20E+01	0	0	0	1,69E+02	-9,29E+00
Use of non-renewable primary energy resources used as raw materials	**1,45E+02**	**MJ**	1,45E+02	0*	0*	0	0	0	0*	-2,81E-01
Total use of non-renewable primary energy resources (primary energy and primary energy resources used as raw materials)	**1,59E+03**	**MJ**	1,36E+03	4,24E+01	2,20E+01	0	0	0	1,69E+02	-9,57E+00

*Represents less than 0.01% of the total life cycle of the reference flow
[1] For the Use phase and according to the current PCR, the information modules B1, B3, B4, B5 and B7, all having indicator values equal to «0» (zero), are not listed in this table
In accordance with current PCR rules, the environmental indicator values in the «Module D» column must not be summed with the values in the «Total Life Cycle» column

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	Total Life Cycle		Manufacturing	Distribution	Installation	Use[1]			End of Life	Module D
			A1-A3	A4	A5	Total B1-B7	B2	B6	C1-C4	
Use of secondary materials	**7,05E+00**	**kg**	7,05E+00	0*	0*	0	0	0	0*	0*
Use of renewable secondary fuels	**0**	**MJ**	0*	0*	0*	0	0	0	0*	0*
Use of non-renewable secondary fuels	**0**	**MJ**	0*	0*	0*	0	0	0	0*	0*
Net use of fresh water	**3,10E+00**	**m3**	3,09E+00	0*	1,93E-03	0	0	0	1,72E-02	1,59E-02
Hazardous waste disposed of	**2,24E+01**	**kg**	4,81E+00	0*	1,22E+00	0	0	0	1,63E+01	-9,55E-02
Non-hazardous waste disposed of	**4,47E+02**	**kg**	4,46E+02	9,39E-02	1,72E-01	0	0	0	9,65E-01	7,70E+00
Radioactive waste disposed of	**5,04E-02**	**kg**	4,99E-02	6,18E-05	7,08E-05	0	0	0	3,47E-04	5,71E-03
Components for re-use	**0**	**kg**	0*	0*	0*	0	0	0	0*	0*
Materials for recycling	**5,22E+00**	**kg**	1,29E+00	0*	0*	0	0	0	3,94E+00	0*
Materials for energy recovery	**0**	**kg**	0*	0*	0*	0	0	0	0*	0*
Exported energy	**0**	**MJ by energy vector**	0*	0*	0*	0	0	0	0*	0*
Total use of primary energy during the life cycle	**1,69E+03**	**MJ**	1,45E+03	4,25E+01	2,37E+01	0	0	0	1,74E+02	1,95E+01
Biogenic carbon content of the product	**0**	**kg of C.**	0*	0*	0*	0	0	0	0*	0*
Biogenic carbon content of the associated packaging	**1,59E+00**	**kg of C.**	1,59E+00	0*	0*	0*	0*	0*	0*	8,08E-01

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

[1] For the Use phase and according to the current PCR, the information modules B1, B3, B4, B5 and B7, all having indicator values equal to «0» (zero), are not listed in this table

In accordance with current PCR rules, the environmental indicator values in the «Module D» column must not be summed with the values in the «Total Life Cycle» column

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.

For all products concerned (see § «products concerned»), take these impacts values.

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The environmental impact of the product, described in this document and different of the Reference Product, can be estimated by weighting the environmental impacts of the Reference Product by the corresponding factors

References	Designation	Total Life Cycle	Manu-factu-ring	Distri-bution	Installa-tion	Use	End of life
653010	Column direct clipping 1 compartment 2,67m white	0,6	0,6	0,6	0,9	-	0,6
653012	Column direct clipping 1 compartment 2,67m black	0,5	0,5	0,5	0,4	-	0,6
653013	Column direct clipping 1 compartment 3,92m white	0,9	0,9	0,9	1,2	-	0,8
653015	Column direct clipping 1 compartment 3,92m black	0,8	0,8	0,8	1,1	-	0,8
653030	Column direct clipping 2 compartments 2,67m white	0,8	0,8	0,8	0,8	-	0,7
653032	Column direct clipping 2 compartments 2,67m black	0,8	0,8	0,8	0,8	-	0,8
653033	Column direct clipping 2 compartments 3,92m white	1,0	1,0	1,0	1,0	-	1,0
653035	Column direct clipping 2 compartments 3,92m black	1,1	1,1	1,1	1,1	-	1,1
653050	Column direct clipping 4 compartments 3,3m white	0,8	0,8	0,8	1,5	-	0,6
653052	Column direct clipping 4 compartments 3,3m black	0,8	0,8	0,8	1,5	-	0,6
653000	Mini column direct clipping 1 compartment 0.30m white	0,2	0,2	0,2	0,6	-	0,1
653002	Mini column direct clipping 1 compartment 0.30m black	0,2	0,2	0,2	0,5	-	0,1
653003	Mini column direct clipping 1 compartment 0.68m white	0,2	0,2	0,2	0,3	-	0,1
653005	Mini column direct clipping 1 compartment 0.68m black	0,2	0,2	0,2	0,7	-	0,1
653020	Mini column direct clipping 2 compartments 0.30m white	0,1	0,1	0,1	0,3	-	0,1
653022	Mini column direct clipping 2 compartments 0.30m black	0,1	0,1	0,1	0,3	-	0,1
653023	Mini column direct clipping 2 compartments 0.68m white	0,2	0,2	0,2	0,3	-	0,2
653025	Mini column direct clipping 2 compartments 0.68m black	0,2	0,2	0,2	0,3	-	0,2
653040	Mini column direct clipping 4 compartments 0.30m white	0,2	0,2	0,2	0,3	-	0,2
653042	Mini column direct clipping 4 compartments 0.30m black	0,2	0,2	0,2	0,3	-	0,2
653043	Mini column direct clipping 4 compartments 0.68m white	0,3	0,3	0,3	0,4	-	0,3
653045	Mini column direct clipping 4 compartments 0.68m black	0,3	0,3	0,3	0,4	-	0,3
653054	Full OVALINE column 3.2m	0,5	0,5	0,5	1,7	-	0,3
653060	OVALINE kit extension for mini column 1 compartment CV 45mm white	0,4	0,4	0,4	1,6	-	0,2
653061	OVALINE kit extension for mini column 1 compartment CV 45mm alu	0,5	0,5	0,5	1,7	-	0,2
653062	OVALINE kit extension for mini column 1 compartment CV 45mm black	0,5	0,5	0,5	1,7	-	0,2
653063	OVALINE kit extension for mini column 2 cpt. CV 45mm or 1 cpt. CV 80mm white	0,4	0,4	0,4	1,5	-	0,2
653064	OVALINE kit extension for mini column 2 cpt. CV 45mm or 1 cpt. CV 80mm alu	0,5	0,5	0,5	1,7	-	0,2
653065	OVALINE kit extension for mini column 2 cpt. CV 45mm or 1 cpt. CV 80mm black	0,5	0,4	0,4	1,6	-	0,2

Registration number: **LGRP-01606-V02.01-FR**	Drafting rules: **«PEP-PCR-ed4-EN-2021 09 06» Supplemented by «PSR-0003-ed2.1-2023 12 08»**
Verifier accreditation N°: **VH08**	Information and reference documents: **www.pep-ecopassport.org**
Date of issue: **09-2024**	Validity period: **5 years**
Independent verification of the declaration and data, in compliance with ISO 14025 : 2006	
Internal ☐ **External** ☒	
The PCR review was conducted by a panel of experts chaired by Julie ORGELET (DDemain)	
PEP are compliant with NF C08-100-1 :2016 and EN 50693 :2019 or NF E38-500 :2022 The elements of the present PEP cannot be compared with elements from another program	
Document in compliance with ISO 14025 : 2006: «Environmental labels and declarations. Type III environmental declarations»	

Environmental data in alignment with EN 15804: 2012 + A2 : 2019