Product Environmental Profile

Resi9 Connect Communication Cabinet

as reference product for :
all Cabinets in LEXCOM HOME range

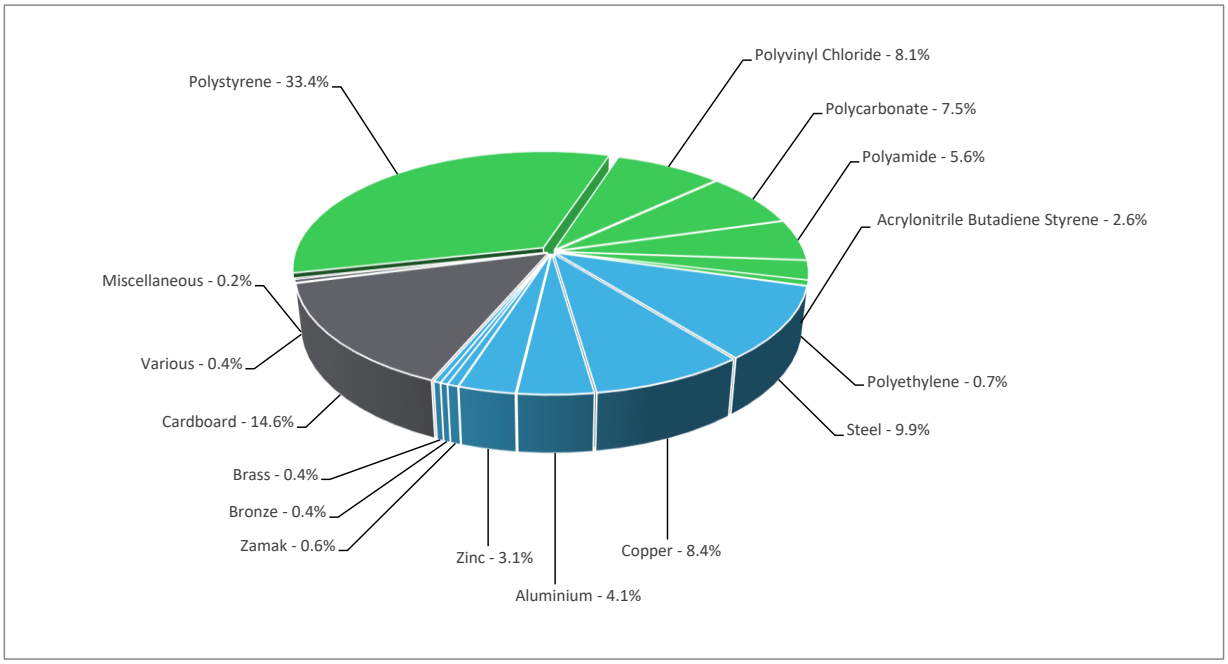
General information

Reference product	Coffret VDI Grad2TV min 13MBox - VDIRM0036
Description of the product	This product is a network / communication cabinet for residential purpose aiming to distribute communication signals (Phone, IP Data, TV, SAT, IPTV, LAN) to farthest corner of the house, safely and without interference. As central point, the network / communication cabinet can embed the ISP router to dispatch any IP Data (VoIP, IPTV, LAN) to RJ45 communication sockets on wall.
Description of the range	The PEP refers to the product range "LEXCOM HOME" and the reference product considered for the analysis within the range is "VDIRM0036" based on the market value and specification.
Functional unit	Distribute communication signals (Phone, IP Data, TV, SAT) from one end to other end of home with IK08 degrees of protection against external mechanical impacts in accordance with the standard IEC 62262. Compatible with Grade2TV cabling system according to NFC 15-100 and NFC 90483 standards for the reference service life of 20 years.
Specifications are:	Dimension: 500 x 108 x 252 mm Number of Row: 3 Patch panel: 12 ports Number of Connectors: 6 RJ45

CR	Description	Product Weight in g	Packaging Weight in g	Dimension (H x W x L) in mm
VDIRM0006	Coffret VDI Grad2TV min 13M1R	956	170	130 x 26 x 258
VDIRM0042	Coffret VDI Grad2TV min 18M1R	1284	207	125 x 265 x 37

Constituent materials

Reference product mass	2296 g	including the product and its packaging



	Plastics	57.9%
	Metals	26.9%
	Others	15.2%

Substance assessment

Details of ROHS and REACH substances information are available on the Schneider-Electric website
https://www.se.com

Additional environmental information

End Of Life	Recyclability potential:	**31%**	The recyclability rate was calculated from the recycling rates of each material making up the product based on REEECY'LAB tool developed by Ecosystem, for components/materials not covered by the tool, data from the EIME database and the related PSR was taken. If no data was found a conservative assumption was used (0% recyclability).

Environmental impacts

Reference service life time	20 years
Product category	Combinations of functions
Life cycle of the product	The manufacturing, the distribution, the installation, the use and the end of life were taken into consideration in this study
Electricity consumption	The electricity consumed during manufacturing processes is considered for each part of the product individually, the final assembly generates a negligable consumption
Installation elements	The product does not require special installation procedure and requires little to no energy to install. The disposal of the packaging materials are accounted during the installation phase (including transport to disposal). The material constituents of the packaging are Cardboard 97%, Plastic 2% and Paper 1%.
Use scenario	Passive product continuous operation' scenario, products through which the main current passes during continuous operation. The power dissipation at 100% load rate is 0.275W. ▪ Load rate / rated current (In): 30% In ▪ Use time rate: 100 %
Time representativeness	The collected data are representative of the year 2024
Technological representativeness	The Modules of Technologies such as material production, manufacturing processes and transport technology used in the PEP analysis (LCA EIME in the case) are similar and representative of the actual type of technologies used to make the product.

Geographical representativeness	**Final assembly site**	**Use phase**		**End-of-life**
	France	Europe		Europe
	[A1 - A3]	**[A5]**	**[B6]**	**[C1 - C4]**
Energy model used	Electricity Mix; Low voltage; 2020; France, FR Electricity Mix; Low voltage; 2020; Europe, EU-27 Electricity Mix; Low voltage; 2020; Global, GLO	Electricity Mix; RER	Electricity Mix; Low voltage; 2020; Europe, EU-27	Global, European and French datasets are used.

Detailed results of the optional indicators mentioned in PCRed4 are available in the LCA report and on demand in a digital format - Country Customer Care Center - http://www.se.com/contact

Mandatory Indicators		**Coffret VDI Grad2TV min 13MBox - VDIRM0036**						
Impact indicators	**Unit**	**Total (without Module D)**	**[A1 - A3] - Manufacturing**	**[A4] - Distribution**	**[A5] - Installation**	**[B1 - B7] - Use**	**[C1 - C4] - End of life**	**[D] - Benefits and loads**
Contribution to climate change	kg CO2 eq	1.28E+01	8.15E+00	4.21E-01	8.73E-01	1.75E+00	1.57E+00	-2.87E+00
Contribution to climate change-fossil	kg CO2 eq	1.27E+01	8.59E+00	4.21E-01	3.95E-01	1.71E+00	1.56E+00	-3.18E+00
Contribution to climate change-biogenic	kg CO2 eq	8.45E-02	-4.40E-01	0*	4.79E-01	3.87E-02	7.14E-03	3.06E-01
Contribution to climate change-land use and land use change	kg CO2 eq	2.12E-04	2.11E-04	6.37E-07	0*	0	9.30E-07	0.00E+00
Contribution to ozone depletion	kg CFC-11 eq	7.94E-07	7.12E-07	5.11E-09	5.37E-09	7.51E-09	6.40E-08	-5.45E-07
Contribution to acidification	mol H+ eq	8.86E-02	6.96E-02	6.65E-04	1.16E-03	9.17E-03	7.97E-03	-5.17E-02
Contribution to eutrophication, freshwater	kg P eq	1.01E-04	8.21E-05	1.57E-06	8.30E-06	4.20E-06	4.59E-06	-1.33E-05
Contribution to eutrophication marine	kg N eq	9.19E-03	6.05E-03	1.21E-04	4.86E-04	1.07E-03	1.46E-03	-2.42E-03
Contribution to eutrophication, terrestrial	mol N eq	1.05E-01	6.41E-02	1.32E-03	3.52E-03	1.72E-02	1.88E-02	-2.59E-02
Contribution to photochemical ozone formation - human health	kg COVNM eq	3.17E-02	2.26E-02	4.28E-04	8.03E-04	3.40E-03	4.46E-03	-1.04E-02
Contribution to resource use, minerals and metals	kg Sb eq	4.74E-04	4.73E-04	1.50E-07	0*	5.68E-07	3.50E-07	-6.60E-04
Contribution to resource use, fossils	MJ	2.93E+02	2.12E+02	7.47E+00	3.84E+00	4.20E+01	2.73E+01	-5.37E+01
Contribution to water use	m3 eq	8.73E+00	8.37E+00	1.52E-02	3.20E-02	1.33E-01	1.84E-01	-2.55E+00

Inventory flows Indicators		Coffret VDI Grad2TV min 13MBox - VDIRM0036						
Inventory flows	Unit	Total (without Module D)	[A1 - A3] - Manufacturing	[A4] - Distribution	[A5] - Installation	[B1 - B7] - Use	[C1 - C4] - End of life	[D] - Benefits and loads
Contribution to use of renewable primary energy excluding renewable primary energy used as raw material	MJ	1.83E+01	6.32E+00	2.36E-02	5.24E-01	9.84E+00	1.62E+00	-7.61E-01
Contribution to use of renewable primary energy resources used as raw material	MJ	6.82E+00	6.82E+00	0	0	0	0	-4.95E+00
Contribution to total use of renewable primary energy resources	MJ	2.52E+01	1.31E+01	2.36E-02	5.24E-01	9.84E+00	1.62E+00	-5.71E+00
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	2.38E+02	1.57E+02	7.47E+00	3.84E+00	4.20E+01	2.73E+01	-5.35E+01
Contribution to use of non renewable primary energy resources used as raw material	MJ	5.50E+01	5.50E+01	0	0	0	0	-1.69E-01
Contribution to total use of non-renewable primary energy resources	MJ	2.93E+02	2.12E+02	7.47E+00	3.84E+00	4.20E+01	2.73E+01	-5.37E+01
Contribution to use of secondary material	kg	0.00E+00	0	0	0	0	0	0.00E+00
Contribution to use of renewable secondary fuels	MJ	0.00E+00	0	0	0	0	0	0.00E+00
Contribution to use of non renewable secondary fuels	MJ	0.00E+00	0	0	0	0	0	0.00E+00
Contribution to net use of freshwater	m^3	2.06E-01	1.95E-01	3.53E-04	2.45E-03	3.11E-03	5.26E-03	-5.94E-02
Contribution to hazardous waste disposed	kg	3.14E+01	3.08E+01	0*	2.20E-02	4.84E-02	5.04E-01	-5.13E+01
Contribution to non hazardous waste disposed	kg	6.30E+00	5.17E+00	3.91E-02	1.41E-01	2.64E-01	6.79E-01	-3.21E+00
Contribution to radioactive waste disposed	kg	3.39E-03	3.18E-03	3.09E-05	2.52E-05	6.23E-05	8.96E-05	-2.22E-03
Contribution to components for reuse	kg	0.00E+00	0	0	0	0	0	0.00E+00
Contribution to materials for recycling	kg	9.61E-01	8.07E-02	0	2.79E-01	0	6.02E-01	0.00E+00
Contribution to materials for energy recovery	kg	0.00E+00	0	0	0	0	0	0.00E+00
Contribution to exported energy	MJ	0.00E+00	0	0	0	0	0	0.00E+00

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

Contribution to biogenic carbon content of the product	kg of C	0.00E+00
Contribution to biogenic carbon content of the associated packaging	kg of C	9.40E-02

* The calculation of the biogenic carbon is based on the Ademe for the Cardboard (28%), EN16485 for Wood (39,52%), and APESA/RECORD for Paper (37,8%)

Mandatory Indicators		Coffret VDI Grad2TV min 13MBox - VDIRM0036							
Impact indicators	Unit	[B1 - B7] - Use	[B1]	[B2]	[B3]	[B4]	[B5]	[B6]	[B7]
Contribution to climate change	kg CO2 eq	1.75E+00	0	0	0	0	0	1.75E+00	0
Contribution to climate change-fossil	kg CO2 eq	1.71E+00	0	0	0	0	0	1.71E+00	0
Contribution to climate change-biogenic	kg CO2 eq	3.87E-02	0	0	0	0	0	3.87E-02	0
Contribution to climate change-land use and land use change	kg CO2 eq	0	0	0	0	0	0	0	0
Contribution to ozone depletion	kg CFC-11 eq	7.51E-09	0	0	0	0	0	7.51E-09	0
Contribution to acidification	mol H+ eq	9.17E-03	0	0	0	0	0	9.17E-03	0
Contribution to eutrophication, freshwater	kg P eq	4.20E-06	0	0	0	0	0	4.20E-06	0
Contribution to eutrophication marine	kg N eq	1.07E-03	0	0	0	0	0	1.07E-03	0
Contribution to eutrophication, terrestrial	mol N eq	1.72E-02	0	0	0	0	0	1.72E-02	0
Contribution to photochemical ozone formation - human health	kg COVNM eq	3.40E-03	0	0	0	0	0	3.40E-03	0
Contribution to resource use, minerals and metals	kg Sb eq	5.68E-07	0	0	0	0	0	5.68E-07	0
Contribution to resource use, fossils	MJ	4.20E+01	0	0	0	0	0	4.20E+01	0
Contribution to water use	m3 eq	1.33E-01	0	0	0	0	0	1.33E-01	0

Inventory flows Indicators		Coffret VDI Grad2TV min 13MBox - VDIRM0036							
Inventory flows	Unit	[B1 - B7] - Use	[B1]	[B2]	[B3]	[B4]	[B5]	[B6]	[B7]
Contribution to use of renewable primary energy excluding renewable primary energy used as raw material	MJ	9.84E+00	0	0	0	0	0	9.84E+00	0
Contribution to use of renewable primary energy resources used as raw material	MJ	0	0	0	0	0	0	0	0
Contribution to total use of renewable primary energy resources	MJ	9.84E+00	0	0	0	0	0	9.84E+00	0
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	4.20E+01	0	0	0	0	0	4.20E+01	0
Contribution to use of non renewable primary energy resources used as raw material	MJ	0	0	0	0	0	0	0	0
Contribution to total use of non-renewable primary energy resources	MJ	4.20E+01	0	0	0	0	0	4.20E+01	0
Contribution to use of secondary material	kg	0	0	0	0	0	0	0	0
Contribution to use of renewable secondary fuels	MJ	0	0	0	0	0	0	0	0
Contribution to use of non renewable secondary fuels	MJ	0	0	0	0	0	0	0	0
Contribution to net use of freshwater	m³	3.11E-03	0	0	0	0	0	3.11E-03	0
Contribution to hazardous waste disposed	kg	4.84E-02	0	0	0	0	0	4.84E-02	0
Contribution to non hazardous waste disposed	kg	2.64E-01	0	0	0	0	0	2.64E-01	0
Contribution to radioactive waste disposed	kg	6.23E-05	0	0	0	0	0	6.23E-05	0
Contribution to components for reuse	kg	0	0	0	0	0	0	0	0
Contribution to materials for recycling	kg	0	0	0	0	0	0	0	0
Contribution to materials for energy recovery	kg	0	0	0	0	0	0	0	0
Contribution to exported energy	MJ	0	0	0	0	0	0	0	0

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

Life cycle assessment performed with EIME version v6.2.5-6, database version 2024-01 in compliance with ISO14044, EF3.1 method is applied, for biogenic carbon storage, assessment methodology -1/1 is used

According to this environmental analysis, proportionality rules may be used to evaluate the impacts of other products of this range, ratios to apply can be provided upon request

Please note that the values given above are only valid within the context specified and cannot be used directly to draw up the environmental assessment of an installation.

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Validity period	*5 years*	*Supplemented by*	PSR-0005-ed3.1-EN-2023 12 08
Verifier accreditation N°	VH42	*Information and reference documents*	www.pep-ecopassport.org
Date of issue	11-2025		

Independent verification of the declaration and data, in compliance with ISO 14025 : 2006

Internal External X

The PCR review was conducted by a panel of experts chaired by Julie Orgelet (DDemain)

PEPs are compliant with XP C08-100-1:2016 and EN 50693:2019 or NF E38-500 :2022

The components of the present PEP may not be compared with components from any other program.

Document complies with ISO 14025:2006 "Environmental labels and declarations. Type III environmental declarations"

Schneider Electric Industries SAS

Country Customer Care Center
http://www.se.com/contact

Head Office

35, rue Joseph Monier

CS 30323

F- 92500 Rueil Malmaison Cedex

RCS Nanterre 954 503 439
Capital social 928 298 512 €

www.se.com

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