Product Environmental Profile

Canalis KBB 25A

General information

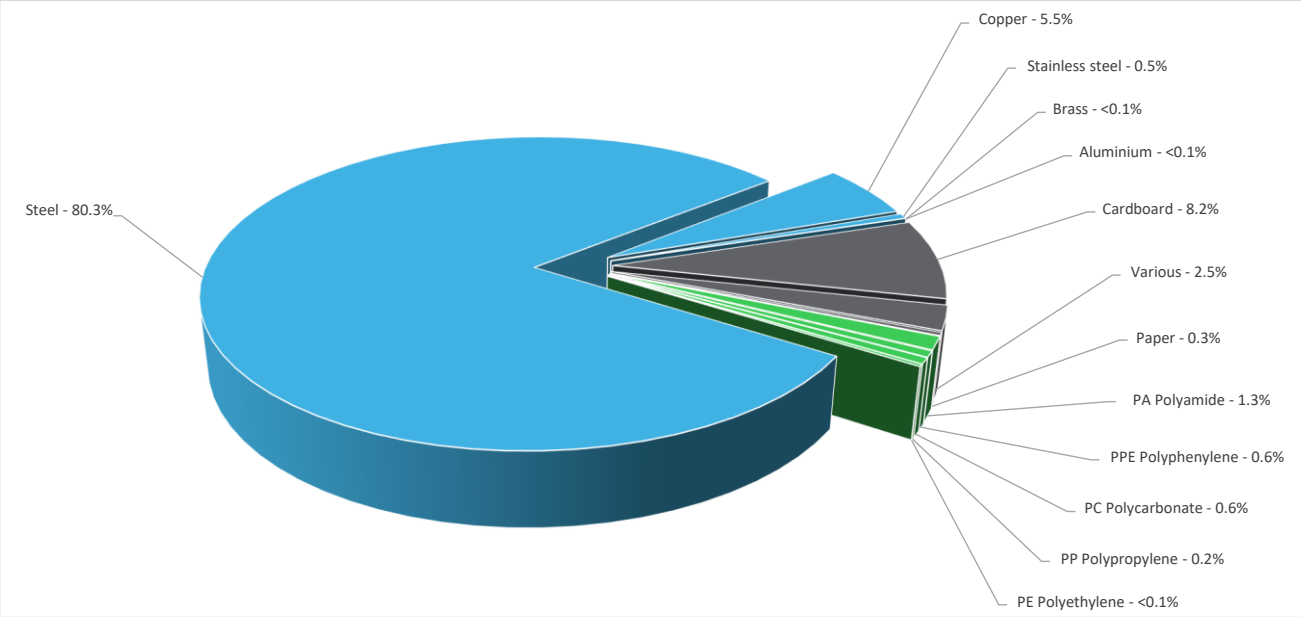
Reference product	Canalis KBB 25A
Product Configuration	The representative product used for the analysis is the typical product KBB 25A, which consists of: ● 7 x 3m Distribution Components (cat. no. KBB25ED4303) ● 1 x 25A Feed Unit Box (cat. no. KBB40ABG4) ● 22 x 25A Fixing Brackets (cat. no. KBB40ZFU) ● 7 x 10A Tap OFF Units in each (cat. no. KBC10DCB20)
Description of the product	The Canalis KBB 25A product distributes electrical power for lighting (with luminaire support brackets) and is a full and compatible product for lighting systems in all types of buildings (garages, workshop, and supermarket). It is very heavy duty and has centre-to-centre fixing distances of up to 5 metres, capable of supporting a large number of heavy light fittings. The data used to make this PEP are the most representative of the product studied. The Canalis KBB 25A for medium-power distribution ranges from 25A to 40A
Description of the range	Single product
Functional unit	To distribute electrical power for lighting throughout the product system according to the appropriate use scenario during the reference service life of the product of 20 years with the following technical characteristics: • IP degree of protection: IP55 conforming in accordance with the standard IEC 60529 • Regulations: compliant with IEC 60439-2 & IEC 61439-6
Specifications are:	• Rated service current: 25A • Rated tap off units current: 10A & 16A • Rated insulating voltage: 690V

Lists of Components included in the Configuration

Components	Description & Size (mm)	Qty	Device	Device Description
KBB40ABG4	Feed Unit 40A Left Mounting Feed L x B x H = 244 x 75.5 x 75.5 End Cover L x B x H = 46 x 30 x 46	1	Feed Unit supplied with End Cover Left Mounting	The feed units delivered with the end covers receive the cables supplying one end of Canalis KBB trunking. The end covers supplied with the feed units terminate the signal length and insure the IP level
KBB25ED4303	Streaight Distrubition Length 25A 3M, L x B x H = 3000 x 51 x 60	7	Straight Distribution Length 3P+N+PE Polarity, 3 Tap-Off units 2 or 4 live conductors. Available in 2 & 3 metre fixed lengths.	Transport (Carry) the current with Tap-off points, support and supply the luminaires. Canalis KBB is specially intended for installations with large fixing distances and/or heavy or numerous luminaires.
KBC10DCB20	10A TAPOFF UNITS L x B x H = 1114 x 60 x 62	7	10A TAP-OFF Unit, 2P+PE, To be wired	The 10 and 16 A tap-off units pre-wired or not, offer phase selection or fixed polarities, and can be used on KDP, KDA and KBB ranges.
KBB40ZFU	Universal Fixing Bracket L x B x H = 39 x 22 x 70.5	22	Fixing System Mounting for direct suspension under trunking suspended on threaded rod or lateral (except wall)	The fixing system ensures that Canalis KBB is well secured, whatever the type of building structure. There are also fixings to secure the luminaires to Canalis KBB. A metal duct is available for running other circuits such as emergency lighting, low-current circuits, etc.

Constituent materials

Reference product mass	228416.41 g	Including the product and its packaging.



	Plastics	2.7%
	Metals	86.3%
	Others	11.0%

Substance assessment

Details of ROHS and REACH substances information are available on the Schneider-Electric Green Premium website
https://www.se.com/ww/en/work/support/green-premium/

Additional environmental information

End Of Life	Recyclability potential:	**96%**	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 or 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	Other equipments - Passive product - continuous operation			
Installation elements	The Product does not need any special installation operation.			
Use scenario	As Per PSR @ Load rate 30% and RLT 100%, The power dissipated by the Canalis KBB 25A is 218W for 20 years			
Time representativeness	The collected data are representative of the year 2023			
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	Europe			
Final assembly site	Dijon (France)			
Energy model used	**[A1 - A3]**	**[A5]**	**[B6]**	**[C1 - C4]**
	Electricity Mix; Low voltage; 2018; Europe, (A1-A2) Electricity Mix; Low voltage; 2018; France, FR (A3)	Electricity Mix; Low voltage; 2018; Europe, EU-27	Electricity Mix; Low voltage; 2018; Europe, EU-27	Electricity Mix; Low voltage; 2018; Europe, EU-27

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.schneider-electric.com/contact

Mandatory Indicators		Canalis KBB 25A - Canalis KBB 25A						
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	3.31E+03	1.26E+03	4.45E+01	2.09E+01	1.41E+03	5.79E+02	-7.40E+02
Contribution to climate change-fossil	kg CO2 eq	3.30E+03	1.25E+03	4.45E+01	1.99E+01	1.41E+03	5.76E+02	-7.35E+02
Contribution to climate change-biogenic	kg CO2 eq	1.35E+01	8.01E+00	0*	9.88E-01	1.88E+00	2.61E+00	-4.37E+00
Contribution to climate change-land use and land use change	kg CO2 eq	2.05E-03	1.97E-03	0*	0*	0*	8.10E-05	0.00E+00
Contribution to ozone depletion	kg CFC-11 eq	3.91E-05	3.10E-05	6.82E-08	2.70E-07	6.02E-06	1.70E-06	-1.12E-04
Contribution to acidification	mol H+ eq	1.75E+01	6.91E+00	2.82E-01	6.09E-02	8.04E+00	2.25E+00	-6.26E+00
Contribution to eutrophication, freshwater	kg $(PO4)^{3-}$ eq	9.92E-02	1.36E-02	1.67E-05	4.77E-04	3.86E-03	8.12E-02	-1.16E-03
Contribution to eutrophication marine	kg N eq	2.54E+00	1.02E+00	1.32E-01	2.65E-02	9.13E-01	4.47E-01	-4.43E-01
Contribution to eutrophication, terrestrial	mol N eq	3.14E+01	1.11E+01	1.45E+00	1.84E-01	1.37E+01	4.97E+00	-5.15E+00
Contribution to photochemical ozone formation - human health	kg COVNM eq	8.65E+00	3.68E+00	3.65E-01	4.23E-02	2.93E+00	1.63E+00	-1.90E+00
Contribution to resource use, minerals and metals	kg Sb eq	4.89E-02	4.62E-02	0*	0*	1.02E-04	2.59E-03	-2.38E-01
Contribution to resource use, fossils	MJ	1.52E+05	7.69E+04	6.20E+02	2.06E+02	3.59E+04	3.87E+04	-1.67E+04
Contribution to water use	m3 eq	7.88E+02	4.62E+02	1.69E-01	1.63E+00	4.99E+01	2.74E+02	-3.91E+02

Inventory flows Indicators		Canalis KBB 25A - Canalis KBB 25A						
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	7.26E+03	2.73E+02	8.28E-01	2.71E+01	6.89E+03	6.44E+01	-1.68E+02
Contribution to use of renewable primary energy resources used as raw material	MJ	1.29E+02	1.29E+02	0*	0*	0*	0*	-5.09E+01
Contribution to total use of renewable primary energy resources	MJ	7.39E+03	4.03E+02	8.28E-01	2.71E+01	6.89E+03	6.44E+01	-2.19E+02
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	1.52E+05	7.64E+04	6.20E+02	2.06E+02	3.59E+04	3.87E+04	-1.67E+04
Contribution to use of non renewable primary energy resources used as raw material	MJ	5.09E+02	5.09E+02	0*	0*	0*	0*	-3.68E-01
Contribution to total use of non-renewable primary energy resources	MJ	1.52E+05	7.69E+04	6.20E+02	2.06E+02	3.59E+04	3.87E+04	-1.67E+04
Contribution to use of secondary material	kg	1.51E+01	1.51E+01	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	1.84E+01	1.08E+01	3.93E-03	3.79E-02	1.16E+00	6.38E+00	-9.10E+00
Contribution to hazardous waste disposed	kg	2.87E+03	2.84E+03	0*	5.19E-01	2.63E+01	0*	-1.90E+04
Contribution to non hazardous waste disposed	kg	5.01E+02	2.76E+02	1.56E+00	8.92E+00	2.03E+02	1.24E+01	-5.75E+02
Contribution to radioactive waste disposed	kg	4.17E-01	3.70E-01	1.11E-03	1.10E-03	4.24E-02	2.00E-03	-2.60E-01
Contribution to components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to materials for recycling	kg	2.29E+02	2.90E+01	0*	0*	0*	2.00E+02	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	3.10E+00	3.36E-01	0*	8.50E-01	0*	1.91E+00	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 de C	0.00E+00
Contribution to biogenic carbon content of the associated packaging	kg de C	5.53E+00

The calculation of the biogenic carbon is based on the APESA/RECORD for paper (28%) and ADEME for cardboard (37.8%).

Mandatory Indicators		Canalis KBB 25A - Canalis KBB 25A							
Impact indicators	Unit	[B1 - B7] - Use	[B1]	[B2]	[B3]	[B4]	[B5]	[B6]	[B7]
Contribution to climate change	kg CO2 eq	1.41E+03	0*	0*	0*	0*	0*	1.41E+03	0*
Contribution to climate change-fossil	kg CO2 eq	1.41E+03	0*	0*	0*	0*	0*	1.41E+03	0*
Contribution to climate change-biogenic	kg CO2 eq	1.88E+00	0*	0*	0*	0*	0*	1.88E+00	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	6.02E-06	0*	0*	0*	0*	0*	6.02E-06	0*
Contribution to acidification	mol H+ eq	8.04E+00	0*	0*	0*	0*	0*	8.04E+00	0*
Contribution to eutrophication, freshwater	kg $(PO4)^{3-}$ eq	3.86E-03	0*	0*	0*	0*	0*	3.86E-03	0*
Contribution to eutrophication marine	kg N eq	9.13E-01	0*	0*	0*	0*	0*	9.13E-01	0*
Contribution to eutrophication, terrestrial	mol N eq	1.37E+01	0*	0*	0*	0*	0*	1.37E+01	0*
Contribution to photochemical ozone formation - human health	kg COVNM eq	2.93E+00	0*	0*	0*	0*	0*	2.93E+00	0*
Contribution to resource use, minerals and metals	kg Sb eq	1.02E-04	0*	0*	0*	0*	0*	1.02E-04	0*
Contribution to resource use, fossils	MJ	3.59E+04	0*	0*	0*	0*	0*	3.59E+04	0*
Contribution to water use	m3 eq	4.99E+01	0*	0*	0*	0*	0*	4.99E+01	0*

Inventory flows Indicators		Canalis KBB 25A - Canalis KBB 25A							
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	6.89E+03	0*	0*	0*	0*	0*	6.89E+03	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	6.89E+03	0*	0*	0*	0*	0*	6.89E+03	0*
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	3.59E+04	0*	0*	0*	0*	0*	3.59E+04	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	3.59E+04	0*	0*	0*	0*	0*	3.59E+04	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	m^3	1.16E+00	0*	0*	0*	0*	0*	1.16E+00	0*
Contribution to hazardous waste disposed	kg	2.63E+01	0*	0*	0*	0*	0*	2.63E+01	0*
Contribution to non hazardous waste disposed	kg	2.03E+02	0*	0*	0*	0*	0*	2.03E+02	0*
Contribution to radioactive waste disposed	kg	4.24E-02	0*	0*	0*	0*	0*	4.24E-02	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, database version 2024-04 in compliance with ISO14044, EF 3.0 method is applied, for biogenic carbon storage, assessment methodology 0/0 is used

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.

Registration number :	SCHN-01175-V01.01-EN	*Drafting rules*	PCR-4-ed4-EN-2021 09 06
		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	06-2024	*Validity period*	5 years
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"			

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