

# Product Environmental Profile

## Copper NQ Panelboards

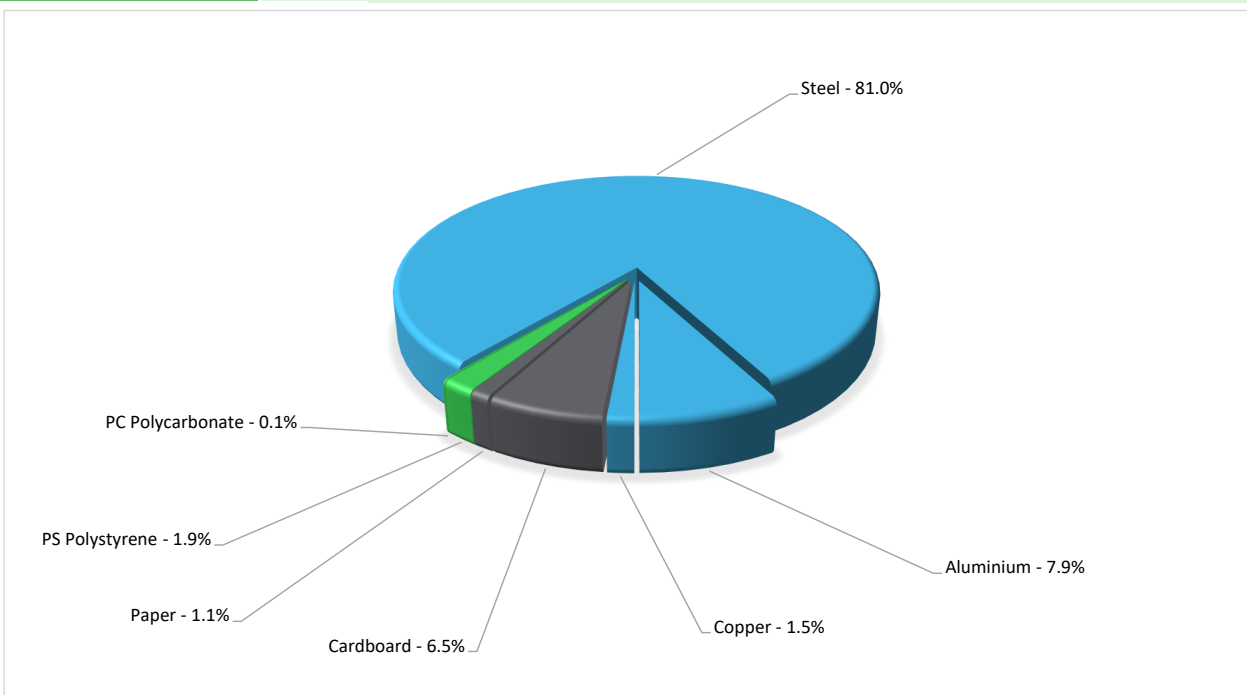


## General information

Reference product	Copper NQ Panelboards - NQ442L2C
Description of the product	NQ Lighting Panelboards is a device that centralizes, switches and distributes electricity.
Functional unit	Protect persons during 20 years against direct contact with live parts and allow grouping monitoring, control and protection devices in a single enclosure or a cabinet having the following dimensions 1270 mm x 508.00 mm x 146.05 mm and NAME 1 with a power use of 0.419W - followed standard: UL 67 UL 50E and CSA22.2

## Constituent materials

Reference product mass	41499.97 g including the product, its packaging and additional elements and accessories
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Metals	90.4%
Others	7.6%
Plastics	2.0%

## 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:	<b>91%</b>	Recyclability rate has been calculated based on REEECY'LAB tool developed by Ecosystem, for components/materials not covered by the tool, data from the "ECO'DEEE recyclability and recoverability calculation method" was taken. If no data was found a conservative assumption was used (0% recyclability).
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**Environmental impacts**

Reference service life time	20 years			
Product category	Combination of functions			
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 for during the installation phase (including transport to disposal).			
Use scenario	The product is in active mode 100% of the time with a power use of 0.419W , for 20 years			
Technological representativeness	The Modules of Technologies such as material production, manufacturing process and transport technology used in this PEP analysis (LCA-EIME in this case) are Similar and representative of the actual type of technologies used to make the product in production			
Geographical representativeness	North America - Mexico, USA, Canada			
Energy model used	[A1 - A3]	[A5]	[B6]	[C1 - C4]
	Electricity Mix; Production mix; Low voltage; MX	Electricity Mix; Production mix; Low voltage; MX	Electricity Mix; Production mix; Low voltage; MX	Electricity Mix; Production mix; Low voltage; MX

Detailed results, including all the optional indicators mentioned in PCRed4, and the split of the Use Phase (B1 to B7), are available in the LCA report

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Mandatory Indicators			Copper NQ Panelboards - NQ442L2C					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life	Benefits
			[A1 - A3]	[A4]	[A5]	[B1 - B7]	[C1 - C4]	[D]
Contribution to climate change	kg CO2 eq	4.18E+02	2.78E+02	1.20E+01	5.32E-01	3.13E+01	9.54E+01	-2.18E+02
Contribution to climate change-fossil	kg CO2 eq	4.15E+02	2.76E+02	1.20E+01	5.31E-01	3.13E+01	9.53E+01	-2.15E+02
Contribution to climate change-biogenic	kg CO2 eq	2.61E+00	2.41E+00	0*	6.73E-04	4.33E-02	1.58E-01	-3.30E+00
Contribution to climate change-land use and land use change	kg CO2 eq	2.05E-06	0*	0*	0*	0*	2.05E-06	0.00E+00
Contribution to ozone depletion	kg CFC-11 eq	9.41E-05	8.30E-05	1.06E-05	0*	9.68E-08	5.16E-07	-3.29E-05
Contribution to acidification	mol H+ eq	2.27E+00	1.73E+00	5.20E-02	4.15E-04	1.39E-01	3.42E-01	-2.15E+00
Contribution to eutrophication, freshwater	kg (PO4) <sup>3-</sup> eq	5.00E-03	5.68E-04	1.40E-06	9.02E-06	4.14E-05	4.38E-03	-4.84E-04
Contribution to eutrophication marine	kg N eq	3.66E-01	2.64E-01	2.39E-02	2.12E-04	1.73E-02	6.15E-02	-1.30E-01
Contribution to eutrophication, terrestrial	mol N eq	4.05E+00	2.91E+00	2.59E-01	1.60E-03	2.07E-01	6.72E-01	-1.49E+00
Contribution to photochemical ozone formation - human health	kg COVNM eq	1.36E+00	9.73E-01	8.49E-02	5.33E-04	5.70E-02	2.41E-01	-5.58E-01
Contribution to resource use, minerals and metals	kg Sb eq	4.65E-02	4.64E-02	0*	0*	0*	1.26E-04	-5.07E-02
Contribution to resource use, fossils	MJ	1.28E+04	5.18E+03	1.45E+02	0*	6.25E+02	6.87E+03	-4.25E+03
Contribution to water use	m3 eq	1.24E+02	8.37E+01	6.07E-01	0*	9.31E-01	3.88E+01	-1.13E+02

Additional indicators for the French regulation are available as well

Inventory flows Indicators			Copper NQ Panelboards - NQ442L2C					
Inventory flows	Unit	Total	Manufact.	Distribution	Installation	Use	End of Life	Benefits
			[A1 - A3]	[A4]	[A5]	[B1 - B7]	[C1 - C4]	[D]
Contribution to use of renewable primary energy excluding renewable primary energy used as raw material	MJ	2.20E+02	7.87E+01	0*	2.57E-02	1.38E+02	3.60E+00	-8.40E+01
Contribution to use of renewable primary energy resources used as raw material	MJ	1.58E+01	1.58E+01	0*	0*	0*	0*	-8.04E+00
Contribution to total use of renewable primary energy resources	MJ	2.36E+02	9.44E+01	0*	2.57E-02	1.38E+02	3.60E+00	-9.21E+01
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	1.28E+04	5.15E+03	1.45E+02	0*	6.25E+02	6.87E+03	-4.25E+03
Contribution to use of non renewable primary energy resources used as raw material	MJ	3.83E+01	3.83E+01	0*	0*	0*	0*	0.00E+00
Contribution to total use of non-renewable primary energy resources	MJ	1.28E+04	5.18E+03	1.45E+02	0*	6.25E+02	6.87E+03	-4.25E+03
Contribution to use of secondary material	kg	2.48E+00	2.48E+00	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	m³	2.89E+00	1.95E+00	1.41E-02	0*	2.17E-02	9.04E-01	-2.62E+00
Contribution to hazardous waste disposed	kg	3.65E+03	3.60E+03	0*	0*	4.05E-01	4.35E+01	-4.10E+03
Contribution to non hazardous waste disposed	kg	2.42E+02	2.34E+02	0*	5.39E-01	4.06E+00	3.15E+00	-2.34E+02
Contribution to radioactive waste disposed	kg	1.42E-01	1.38E-01	2.38E-03	2.34E-05	1.13E-03	6.68E-04	-1.39E-01
Contribution to components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to materials for recycling	kg	3.66E+01	0*	0*	8.32E-03	0*	3.66E+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	2.51E-01	0*	0*	2.51E-01	0*	0*	0.00E+00
Contribution to biogenic carbon content of the product	kg de C	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to biogenic carbon content of the associated packaging	kg de C	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

Life cycle assessment performed with EIME version v5.9.4, database version 2022-01 in compliance with ISO14044.

Detailed results, including all the optional indicators mentioned in PCRed4, and the split of the Use Phase (B1 to B7), are available in the LCA report

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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-00939-V01.01-EN	Drafting rules	PEP-PCR-ed4-2021 09 06
Verifier accreditation N°	VH48	Supplemented by	PSR-0005-ed2-2016 03 29
Date of issue	08-2023	Information and reference documents	<a href="http://www.pep-ecopassport.org">www.pep-ecopassport.org</a>
		Validity period	5 years
Independent verification of the declaration and data, in compliance with ISO 14025 : 2010			
Internal	External	X	
The PCR review was conducted by a panel of experts chaired by Julie Orgelet (DDemain)			
PEP are compliant with XP C08-100-1 :2016 or EN 50693:2019			
The components 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 "			
			

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