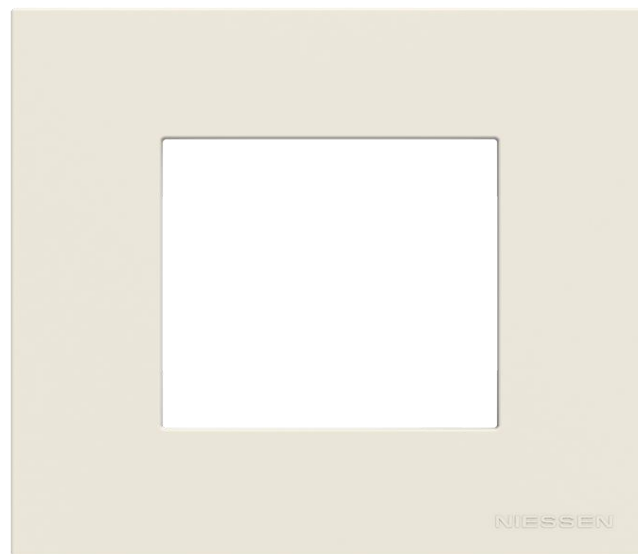


ZENIT SOLID FRAME

Product Environmental Profile

Environmental Product Declaration



Document in compliance with ISO 14025: 2010 "Environmental labels and declarations. Type III environmental declarations"

ORGANIZATION		CONTACT INFORMATION			
ABB Niessen		Lide Brito - lide.brito@es.abb.com			
ADDRESS		WEBSITE			
Aranguren Pol., 6, 20180 Oiartzun, Gipuzkoa		www.new.abb.com			
STATUS	SECURITY LEVEL	REGISTRATION NUMBER	REV.	LANG.	PAGE
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ABB Purpose & Embedding Sustainability

ABB is committed to continually promoting and embedding sustainability across its operations and value chain, aspiring to become a role model for others to follow. With its ABB Purpose, ABB is focusing on reducing harmful emissions, preserving natural resources and championing ethical and humane behavior.

"other points or for example a QR code or link to ABB website, where more information on the topic"



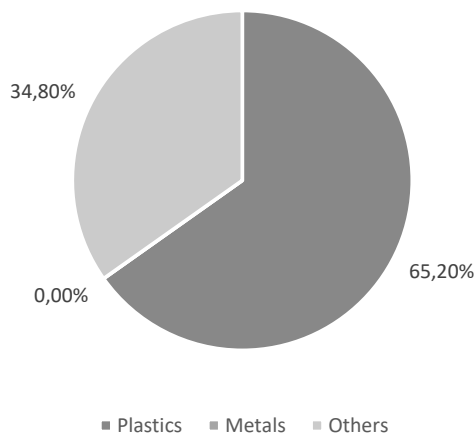
General Information

Reference product	Zenit Solid frame (2CLA227110N1101)
Description of the product	Zenit is the most complete modular wiring accessory product range in the market. The broadness of the accessories of Zenit, makes it flexible and adaptable to all needs. The Zenit range is eco-designed and certified by AENOR under ISO 14006.
Functional unit	Gotten from the used PSR
Other products covered	List of other products covered or a reference to page 9.10.11

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Constituent materials



Total weight of Reference product

29,75 g including the product and its packaging

Plastics as % of weight		Metals as % of weight		Others as % of weight	
Name and CAS number	Weight-%	Name and CAS number	Weight-%	Name and CAS number	Weight-%
PC	65,20	–	–	Packaging film	0,00
–	–	–	–	Boardbox (unit)	19,40
–	–	–	–	Boardbox (macro)	9,60
–	–	–	–	Pallet	5,80

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Additional Environmental Information

Manufacturing	Includes the environmental impacts associated with extraction and processing of the raw materials used to produce the product and its packaging, transport to the manufacturing site and assembly.
Distribution	Includes the transportation in its packaging from the manufacturer's last logistic platform to the distributor.
Installation	Installation stage includes the installation of the products made manually and the end of life of packaging. (Spain)
Use	Non-applicable
End of life	Includes its transportation from the installation site to the final end of life treatment site, and end of life treatment processes. A value of 300 km transport by lorry is used for the transportation. (Spain)
Benefits and loads beyond the system boundaries	Prevented impacts of recycling and waste-to-energy recovery materials

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Environmental impacts

Reference lifetime	20 years
Product category	Frames
Installation elements	End of life of packaging
Use scenario	Europe
Geographical representativeness	Global
Technological representativeness	Materials and processes data are specific for the production of 2-way-switches and its family
Software and database used	SimaPro 9.3 and ecoinvent 3.8.

Energy model used

Manufacturing	A specific mix of ABB's trading company has been used (Confidential)
Installation	Non-applicable
Use	Non-applicable
End of life	Recycling of product and packaging

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Common base of mandatory indicators

Inventory flows indicator – Resource use indicators

Indicator	Unit	Total	Manu- facturing	Distri- bution	Instal- lation	Use	End of life	Bene- fits
PERE	MJ	5,95E+00	5,80E+00	1,25E-01	8,16E-03	0,00E+00	1,54E-02	-8,39E-02
PERM	MJ	1,75E-01	1,75E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PERT	MJ	6,13E+00	5,98E+00	1,25E-01	8,16E-03	0,00E+00	1,54E-02	-8,39E-02
PENRE	MJ	5,54E+00	5,41E+00	1,25E-01	2,20E-06	0,00E+00	2,98E-06	-1,73E+00
PENRM	MJ	5,68E-01	5,68E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PENRT	MJ	6,11E+00	5,98E+00	1,25E-01	2,20E-06	0,00E+00	2,98E-06	-1,73E+00
PERE = Use of renewable primary energy excluding renewable primary energy resources used as raw materials								
PERM = Use of renewable primary energy resources used as raw materials								
PERT = Total Use of renewable primary energy resources								
PENRE = Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials								
PENRM = Use of non-renewable primary energy resources used as raw materials								
PENRT = Total Use of non-renewable primary energy re-sources)								

Inventory flows indicator – Indicators describing the use of secondary materials, water, and energy re-sources

Indicator	Unit	Total	Manu- facturing	Distri- bution	Instal- lation	Use	End of life	Bene- fits
SM	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
RSF	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
NRSF	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
FW	m ³	2,04E+00	2,00E+00	4,20E-02	1,59E-06	0,00E+00	2,98E-06	-9,73E-04
SM = Use of secondary material								
RSF = Use of renewable secondary fuels								
NRSF = Use of non-renewable secondary fuels								
FW = Use of net fresh water								

Inventory flows indicator – Waste category indicators

Indicator	Unit	Total	Manu- facturing	Distri- bution	Instal- lation	Use	End of life	Bene- fits
Hazardous waste disposed	kg	2,04E+00	2,00E+00	4,18E-02	1,40E-03	0,00E+00	2,91E-03	-1,58E-07
Non- hazardous waste disposed	kg	4,57E-03	4,41E-03	1,67E-04	5,42E-08	0,00E+00	1,03E-07	-3,06E-03
Radioactive waste disposed	kg	2,04E+00	1,99E+00	4,18E-02	1,20E-04	0,00E+00	2,50E-04	-3,70E-07

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Common base of mandatory indicators

Inventory flows indicator – Output flow indicators

Indicator	Unit	Total	Manu- facturing	Distri- bution	Instal- lation	Use	End of life	Bene- fits
Components for re-use	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Materials for recycling	kg	2,67E-02	0,00E+00	0,00E+00	1,04E-02	0,00E+00	1,64E-02	0,00E+00
Materials for energy recovery	kg	1,16E-03	2,09E-04	0,00E+00	0,00E+00	0,00E+00	9,51E-04	0,00E+00
Exported energy	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00

Inventory flow indicator – other indicators

Indicator	Unit	Total
Biogenic carbon content of the product	kg of C	0,00E+00
Biogenic carbon content of the associated packaging	kg of C	4,96E-03

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For other products than the Reference product covered by this PEP, the environmental impacts for each phase of the lifecycle are obtained by multiplying the values of the Reference product by the following coefficients:

* if the coefficient is "1", the impacts of the phase of the life cycle are assimilated to the Reference product, meaning that the impacts are unchanged in comparison to the Reference product

Product name	Manufacturing	Distribution	Installation	Use	End of life	Benefits
2CLA217110N1102	0,95	0,95	0,89	1	0,95	0,95
2CLA217110N1302	0,95	0,95	0,89	1	0,95	0,95
2CLA217110N1802	0,95	0,95	0,89	1	0,95	0,95
2CLA217110N1902	0,95	0,95	0,89	1	0,95	0,95
2CLA227110N1102	1	1	1	1	1	1
2CLA227110N1302	1	1	1	1	1	1
2CLA227110N1802	1	1	1	1	1	1
2CLA227110N1902	1	1	1	1	1	1
2CLA227210N1102	1,75	1,75	1,79	1	1,75	1,75
2CLA227210N1302	1,75	1,75	1,79	1	1,75	1,75
2CLA227210N1802	1,75	1,75	1,79	1	1,75	1,75
2CLA227210N1902	1,75	1,75	1,79	1	1,75	1,75
2CLA227310N1102	2,67	2,67	3,32	1	2,67	2,67
2CLA227310N1302	2,67	2,67	3,32	1	2,67	2,67
2CLA227310N1802	2,67	2,67	3,32	1	2,67	2,67
2CLA227310N1902	2,67	2,67	3,32	1	2,67	2,67
2CLA227410N1102	2,88	2,88	3,52	1	2,88	2,88
2CLA227410N1302	2,88	2,88	3,52	1	2,88	2,88
2CLA227410N1802	2,88	2,88	3,52	1	2,88	2,88
2CLA227410N1902	2,88	2,88	3,52	1	2,88	2,88

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* if the coefficient is "1", the impacts of the phase of the life cycle are assimilated to the Reference product, meaning that the impacts are unchanged in comparison to the Reference product

Product name	Manufacturing	Distribution	Instal- lation	Use	End of life	Benefits
2CLA217110N1101	0,81	0,81	0,89	1	0,81	0,81
2CLA217110N1301	0,81	0,81	0,89	1	0,81	0,81
2CLA217110N1801	0,81	0,81	0,89	1	0,81	0,81
2CLA217110N1901	0,81	0,81	0,89	1	0,81	0,81
2CLA227110N1101	0,89	0,89	1	1	0,89	0,89
2CLA227110N1301	0,89	0,89	1	1	0,89	0,89
2CLA227110N1801	0,89	0,89	1	1	0,89	0,89
2CLA227110N1901	0,89	0,89	1	1	0,89	0,89
2CLA227210N1101	1,6	1,6	1,79	1	1,6	1,6
2CLA227210N1301	1,6	1,6	1,79	1	1,6	1,6
2CLA227210N1801	1,6	1,6	1,79	1	1,6	1,6
2CLA227210N1901	1,6	1,6	1,79	1	1,6	1,6
2CLA227310N1101	2,43	2,43	3,32	1	2,43	2,43
2CLA227310N1301	2,43	2,43	3,32	1	2,43	2,43
2CLA227310N1801	2,43	2,43	3,32	1	2,43	2,43
2CLA227310N1901	2,43	2,43	3,32	1	2,43	2,43
2CLA227410N1101	2,57	2,57	3,52	1	2,57	2,57
2CLA227410N1301	2,57	2,57	3,52	1	2,57	2,57
2CLA227410N1801	2,57	2,57	3,52	1	2,57	2,57
2CLA227410N1901	2,57	2,57	3,52	1	2,57	2,57

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Date of issue:	03-2023	Validity period: 5 years

Independent verification of the declaration and data, in compliance with ISO 14025: 2010

Internal ☐ External ☒

The PCR review was conducted by a panel of experts chaired by
Philippe Osset (SOLINNEN)

PEP are compliant with XP C08-100-1: 2016
The elements of the present PEP cannot be compared with elements from
another program

Document in compliance with ISO 14025: 2010 "Environmental labels and
declarations. Type III environmental declarations"



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Environmental Impact Indicator Glossary

Impact indicators

Indicator	Description	Unit
Global warming potential (GWP) - total	Indicator of potential global warming caused by emissions to air contributing to the greenhouse effect. The total global warming potential (GWP-total) is the sum of three sub-categories of climate change. GWP-total = GWP-fossil + GWP-biogenic + GWP- land use and land use change	kg CO ₂ eq.
Ozone depletion (ODP)	Emissions to air that contribute to the destruction of the stratospheric ozone layer	kg CFC-11 eq.
Acidification of soil and water (A)	Acidification of soils and water caused by the release of certain gases to the atmosphere, such as nitrogen oxides and sulphur oxides	H ⁺ eq.
Eutrophication (E)	Indicator of the contribution to eutrophication of water by the enrichment of the aquatic ecosystem with nutritional elements, e.g. industrial or domestic effluents, agriculture, etc. This indicator is divided to three: freshwater, marine and terrestrial.	kg P eq., kg N eq., mole N eq.
Photochemical ozone creation (POCP)	Indicator of emissions of gases that affect the creation of photochemical ozone in the lower atmosphere (smog) because of the rays of the sun.	kg NMVOC eq.
Depletion of abiotic resources – elements (ADPe)	Indicator of the depletion of natural non-fossil resources	kg Sb eq.
Depletion of abiotic resources – fossil fuels (ADPf)	The use of non-renewable fossil resources in an unsustainable way (e.g. from material to waste)	MJ (lower heating value)
Water Deprivation potential (WDP)	Deprivation-weighted water consumption. Assesses the potential of water deprivation, to either humans or ecosystems, building on the assumption that the less water remaining available per area, the more likely another user will be deprived.	m ³ e depr.

Resource use indicators

Indicator	Description	Unit
Total use of primary energy	Total use of non-renewable primary energy resources (primary energy and primary energy resources used as raw materials) + Total use of renewable primary energy re-sources (primary energy and primary energy resources used as raw materials)	MJ (lower heating value)

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