

BLIND CENTER PLATES

PEP ecopassport®

Product Environmental Profile





Product Environmental Profile - PEP Ecopassport.

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

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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.

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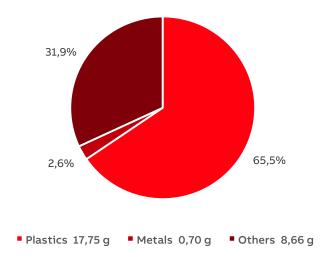


General Information

Reference product	2TKA000856G1
Description of the product	2538-84 Center plate, Impressivo, Blind, white
Functional unit	Ensure to cover the switch using a blind center plate for the reference life of 20 years.
Other products covered	The other products covered by the PEP are listed on page 9.

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Total weight of Reference product with packaging

27,1 g

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%	
Polycarbonate	51,7	Carbon steel	2,6	Carton	31,9	
Polypropylene	8,5	-	x	-	x	
Plastic packaging LDPE	5,3	-	x	-	x	

The analysed product is in conformity with the provisions of Low Voltage Directive 2014/35/EU, RoHS directive 2011/65/EU, covering 2015/863(EU), REACH regulation No 1907/2006, and national legislation.

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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, covering modules A1-A3. The product is manufactured at an ISO 14000 certified plant.
Distribution	Includes the transportation of the packaged product from the manufacturer's last logistic platform to the distributor, covering module A4
Installation	Includes the manual installation of the products and the end-of-life of packaging, covering module A5.
Use	The product does not require special maintanence operations, covering modules B1-B7.
End of life	Includes the transportation of the product to the final end-of-life treatment site and treatment processes, covering modules C1-C4.
Benefits and loads beyond the system boundaries	Prevented impacts of recycling materials, covering module D.

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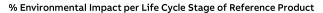


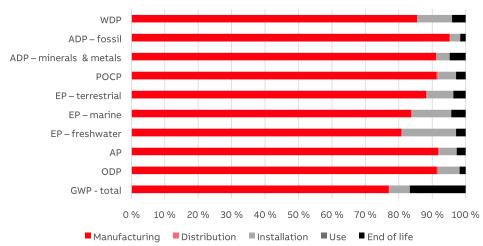
Environmental Impacts

Reference lifetime	20 years
Product category	Other Equipment
Installation elements	No additional materials needed
Use scenario	Non applicable for this product
Geographical representativeness	Finland, Estonia and Lithuenia
Technological representativeness	The manufactruing processes considered are representative of the products production
Software and database used	Software: SimaPro version 9.6.0.1 Database: ecoinvent 3.10 and Industry data 2.0
Energy model used	
Manufacturing	Finland, Estonia and Lithuenia
Installation	Finland
Use	-
End of life	Finland

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Common base of mandatory indicators





Environmental impact indicators

nvironmentai	impact ind	icators							
Indicator	Unit	Total	Manu- facturing	Distri- bution	Installation	Use	End of life	Bene- fits	
GWP-total	kg CO ₂ eq.	1,55E-01	1,20E-01	4,36E-04	9,40E-03	0,00E+00	2,59E-02	-2,66E-02	
GWP-fossil	kg CO ₂ eq.	1,56E-01	1,21E-01	4,36E-04	8,50E-03	0,00E+00	2,59E-02	-2,71E-02	
GWP-biogenic	kg CO ₂ eq.	-1,37E-03	-2,23E-03	2,28E-07	8,43E-04	0,00E+00	1,43E-05	5,16E-04	
GWP-luluc kg CO ₂ eq. 5,02E-04 4,32E-04 1,55E-07 5,58E-05 0,00E+00 1,43E-05 5,86E-05 GWP-fossil = Global Warming Potential fossil fuels GWP-biogenic = Global Warming Potential biogenic GWP-luluc = Global Warming Potential land use and land use change									
ODP	kg CFC-11	2,69E-09	2,46E-09	9,04E-12	1,74E-10	0,00E+00	4,93E-11	-5,69E-10	

ODP	kg CFC-11 eq.	2,69E-09	2,46E-09	9,04E-12	1,74E-10	0,00E+00	4,93E-11	-5,69E-10
ODP = Depletion po	tential of the str	atospheric oz	one layer					
AP	H+ eq.	4,73E-04	4,34E-04	1,18E-06	2,49E-05	0,00E+00	1,27E-05	-6,76E-05
AP = Acidification p	otential, Accumu	lated Exceeda	ance					
EP-freshwater	kg P eq.	2,29E-05	1,85E-05	3,05E-08	3,72E-06	0,00E+00	6,54E-07	-3,11E-06
EP-marine	kg N eq.	1,12E-04	9,35E-05	3,07E-07	1,31E-05	0,00E+00	4,81E-06	-1,89E-05
EP-terrestrial	mol N eq.	1,11E-03	9,79E-04	3,34E-06	8,73E-05	0,00E+00	4,14E-05	-1,84E-04
ED ()								

EP-freshwater = Eutrophication potential, fraction of nutrients reaching freshwater end compartment EP-marine = Eutrophication potential, fraction of nutrients reaching marine end compartment

EP-terrestrial = Eutrophication potential, Accumulated Exceedance

РОСР	kg NMVOC eq.	4,00E-04	3,65E-04	1,89E-06	2,16E-05	0,00E+00	1,14E-05	-6,18E-05		
POCP = Formation p	POCP = Formation potential of tropospheric ozone									
ADP-minerals & metals	kg Sb eq.	7,12E-07	6,49E-07	1,21E-09	2,73E-08	0,00E+00	3,41E-08	-7,42E-08		
ADP-fossil	МЈ	2,86E+00	2,72E+00	6,52E-03	8,51E-02	0,00E+00	4,67E-02	-6,93E-01		
ADP-minerals & metals = Abiotic depletion potential for non-fossil resources ADP-fossil = Abiotic depletion for fossil resources potential										
WDP	m³ eq. depr.	3,39E-02	2,90E-02	3,09E-05	3,48E-03	0,00E+00	1,39E-03	-7,17E-03		
WDP = Water Depriv	ation potential									

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Common base of mandatory indicators

Inventory flows indicator - Resource use indicators

Indicator	Unit	Total	Manu- facturing	Distri- bution	Installation	Use	End of life	Bene- fits
PERE	MJ	3,81E-01	3,54E-01	9,98E-05	1,49E-02	0,00E+00	1,16E-02	-7,38E-02
PERM	MJ	1,11E-01	1,11E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PERT	MJ	4,92E-01	4,65E-01	9,98E-05	1,49E-02	0,00E+00	1,16E-02	-7,38E-02
PENRE	МЈ	2,25E+00	2,11E+00	6,52E-03	8,53E-02	0,00E+00	4,67E-02	-6,93E-01
PENRM	МЈ	6,08E-01	6,08E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PENRT	MJ	2,86E+00	2,72E+00	6,52E-03	8,53E-02	0,00E+00	4,67E-02	-6,93E-01

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

 ${\tt PENRE = Use\ of\ non-renewable\ primary\ energy\ excluding\ non-renewable\ primary\ energy\ resources\ used\ as\ raw\ materials}$

PENRM = Use of non-renewable primary energy resources used as raw materials

PENRT = Total Use of non-renewable primary energy resources

Inventory flows indicator – Indicators describing the use of secondary materials, water, and energy resources

Indicator	Unit	Total	Manu- facturing	Distri- bution	Installation	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	m³	1,16E-03	9,86E-04	1,03E-06	1,27E-04	0,00E+00	4,95E-05	-2,29E-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	Installation	Use	End of life	Bene- fits
Hazardous waste disposed	kg	6,77E-06	6,23E-06	4,28E-08	3,80E-07	0,00E+00	1,22E-07	-1,02E-06
Non- hazardous waste disposed	kg	4,09E-02	4,08E-02	3,68E-05	5,70E-05	0,00E+00	7,53E-05	-1,61E-02
Radioactive waste disposed	kg	2,70E-05	2,65E-05	1,95E-09	1,59E-07	0,00E+00	4,15E-07	-9,43E-06

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Common base of mandatory indicators

Inventory flows indicator – Output flow indicators

Indicator	Unit	Total	Manu- facturing	Distri- bution	Installation	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	1,56E-02	0,00E+00	0,00E+00	9,03E-03	0,00E+00	6,59E-03	0,00E+00
Materials for energy recovery	kg	9,64E-03	7,69E-04	0,00E+00	1,07E-03	0,00E+00	7,80E-03	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	Manu- facturing	Distri- bution	Installation	Use	End of life	Bene- fits
Biogenic carbon content of the product	kg of C	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Biogenic carbon content of the associated packaging	kg of C	3,90E-03	3,90E-03	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00

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Extrapolation Factors

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	Manu- facturing	Distri- bution	Installation	Use	End of life	Benefits
2TKA000856G1	1,00	1,00	1,00	1,00	1,00	1,00
2TKA000854G1	1,00	1,00	1,00	1,00	1,00	1,00
2TKA000852G1	1,00	1,00	1,00	1,00	1,00	1,00
2TKA000850G1	0,71	0,71	0,55	1,00	0,81	0,71
2TKA000848G1	1,10	1,10	1,00	1,00	1,16	1,10
2TKA000847G1	1,10	1,10	1,00	1,00	1,16	1,10
2TKA000846G1	1,10	1,10	1,00	1,00	1,16	1,10
2TKA000845G1	0,97	0,97	1,00	1,00	0,95	0,97
2TKA00004840	1,10	1,10	1,00	1,00	1,16	1,10
2TKA00004106	1,10	1,10	1,00	1,00	1,16	1,10
2TKA00001387	1,14	1,14	1,37	1,00	1,00	1,14
2TKA00001385	0,78	0,78	0,71	1,00	0,81	0,78
2CKA001710A3895	2,27	2,27	1,00	1,00	3,03	2,27
2CKA001710A3873	2,27	2,27	1,00	1,00	3,03	2,27
2CKA001710A3751	2,27	2,27	1,00	1,00	3,03	2,27

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Environmental Impact Indicator Glossary

Impact indicators

Indicator	Description	Distri- bution
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 CO₂ 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.	m³ eq. depr.

Resource use indicators

Indicator	Description	Distri- bution
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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Date of issue:	01-2025	Validity period: 5 yea	ars				
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