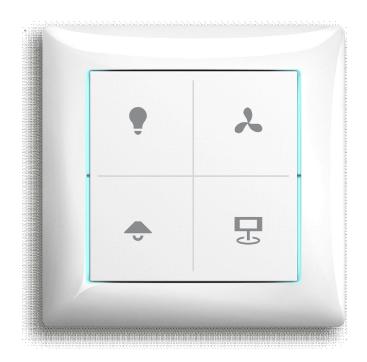




**ABB TREVION® 55** 

# 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"

ORGANIZATION		CONTACT INFORMATION					
Busch-Jaeger Elektro GmbH		pia.denninghoff@de.abb.com					
ADDRESS		WEBSITE					
Freisenbergstraße 2, 58513 Lüdens	reisenbergstraße 2, 58513 Lüdenscheid, Germany		https://www.busch-jaeger.de/online-katalog/detail/2CKA006512A0353				
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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.

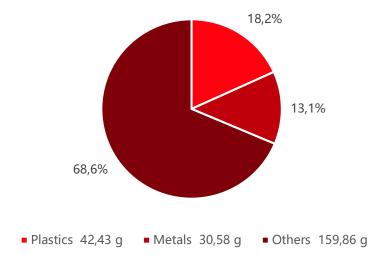
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## **General Information**

Reference product	One Control element 55: KK/U4.55.1 + one Cover 1-fold: LFW/A.1.55.91-916 + one BAU f@h: BAU-F-0.1
	The product can be used to control room functions, such as
Description of the product	dimming lights, controlling blinds, and measure room temperature. The products are designed for residential and commercial buildings, and installed in a standards flush mounted VDE box.
Functional unit	Control room functions, such as dimming lights, controlling blinds, and measure room temperature, according to the appropriate use scenario, and for the reference service life of the product of 10 years.
Other products covered	Control element 55: KK/U4.55.1(2CKA006115A0506) + Cover 1-fold: LFW/A.1.55.1-914(2CKA006199A0170) + BAU KNX: BA/U1.0.1(2CKA006120A0080) Control element 55: KK/U4.55.1(2CKA006115A0506) + Cover 1-fold: LFW/A.1.55.91-916(2CKA006199A0186) + BAU KNX: BA/U1.0.1(2CKA006120A0080) Control element 55: KK/U4.55.1(2CKA006115A0506) + Cover 1-fold: LFW/A.1.55.1-914(2CKA006199A0170) + BAU f@h: BAU-F-0.1(2CKA006220A0999) And other reference codes

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# Constituent Materials



Total weight of Reference product with packaging

232,9 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%
Glass fiber reinforced plastic	7,1	Stainless steel	0,5	PCBA	7,3
PBT	7,0	Low alloyed steel	12,7	Cardboard (packaging)	29,6
Polycarbonate	4,1	_	x	Paper (packaging)	30,9
_	x	-	x	PE film (packaging	0,9

The product is in conformity with the provisions of 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	The product is produced at and delivered from two internal BJE sites in Germany. One site is in Lüdenscheid and the other one in Bad Berleburg/Aue. No recycled material content is assumed. All components are transported by lorry from the supplier to these two manufacturing sites. The manufacturing waste for all materials is included.  The electricity mix on both manufacturing sites is largely renewable from Scandinavian hydropower and rooftop solar power on the Lüdenscheid site (together 90% in Bad Berleburg/Aue and 89% in Lüdenscheid). Instead of hydropwer, a German market mix for electricity was modelled to avoid double counting. The amount of natural gas for both on-site electricity generation (CHP) and heating, as well as the emissions of both was used as an input to the model. All CO2 emissions are compensated through ClimatePartner, but this compensation is not accounted for in the EPD. For transport of waste from the manufacturing site to the treatment facility, the default distance of 100 km by truck is used, in line with chapter 3.1.5.1.2 of PSR-0005-ed3. Specific one-year data from 2023 on manufacturing site level was collected and allocated to the products components which are manufactured in-house by mass allocation following the requirements of ISO 14044.
Distribution	The transport scenario is estimated based on the distance to the capital city of the countries it is sold to, according to the sales data for 2023.
Installation	Installation is done manually without using energy or other auxiliary materials. Treatment of packaging waste is included in this stage, assuming the European end-of-life scenario mentioned in chapter 5.1.5.2.1 of the PSR.
Use	The power consumption is 14,93 kWh over the reference lifetime of 10 years. A regional electricity mix is used to model the fraction of the product to each destination country.
End of life	The standard scenario set in the PCR is considered with parameters listed in Appendix D and a transport distance of 1000 km.
Benefits and loads beyond the system boundaries	Steel has a recovery rate of 80% according to the PCR, the Module D formula from the PCR was used to calculate the benefits. Other materials were not included here, due to a material recovery rate of 0. For the product packaging, the default (European) end-of-life data from chapter 3.1.5.2.1 of the PSR is used to determine the recycling rates. According to that, cardboard and paper have a recovery rate of 82%, and plastic a recovery rate of 40% which are also included in this stage.

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## **Environmental Impacts**

Reference lifetime	10 years
Product category	3.15 "Other Equipment"
Installation elements	Not applicable
Use scenario	Active products
Geographical representativeness	Production site data is for Germany, and all other data has a European or world scope
Technological representativeness	Materials and process data are specific for the product
Software and database used	SimaPro version 9.6.0.1 and Ecoinvent 3.10

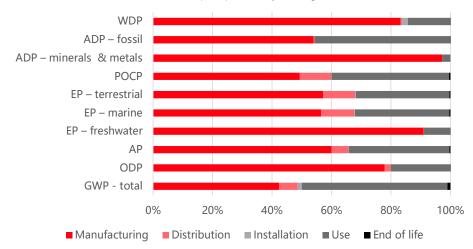
#### Energy model used

Manufacturing	Electricity, high voltage {DE}  market for   Cut-off, U Electricity, low voltage {DE}  electricity production, photovoltaic, 3kWp slanted-roof installation, single-Si, panel, mounted   Cut-off, U Natural gas, high pressure {DE}  market for   Cut-off, S
Installation	Not applicable
Use	Electricity, low voltage {CN}  market group for electricity, low voltage   Cut-off, S Electricity, low voltage {AE}  market for electricity, low voltage   Cut-off, S Electricity, low voltage {SE}  market for electricity, low voltage   Cut-off, S Electricity, low voltage {TR}  market for electricity, low voltage   Cut-off, S Electricity, low voltage {NO}  market for electricity, low voltage   Cut-off, S Electricity, low voltage {BE}  market for electricity, low voltage   Cut-off, S Electricity, low voltage {SG}  market for electricity, low voltage   Cut-off, S Electricity, low voltage {SG}  market for electricity, low voltage   Cut-off, S Electricity, low voltage {DK}  market for electricity, low voltage   Cut-off, S
End of life	Not applicable

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## Common base of mandatory indicators





Indicator	Unit	Total	Manu- facturing	Distri- bution	Installation	Use	End of life	Bene fits
GWP-total	kg CO <sub>2</sub> eq.	1,60E+01	6,79E+00	9,90E-01	2,30E-01	7,83E+00	1,55E-01	-1,78E-0
GWP-fossil	kg CO <sub>2</sub> eq.	1,58E+01	6,84E+00	9,90E-01	1,54E-02	7,81E+00	1,53E-01	-2,54E-0
GWP-biogenic	kg CO <sub>2</sub> eq.	1,74E-01	-5,98E-02	1,32E-04	2,14E-01	1,68E-02	2,17E-03	7,72E-0
GWP-luluc	kg CO <sub>2</sub> eq.	1,80E-02	9,01E-03	5,97E-05	3,25E-06	8,95E-03	3,04E-05	-7,41E-
GWP-fossil = Globa GWP-biogenic = Gl GWP-luluc = Globa	obal Warming	Potential bid	ogenic	change				
ODP	kg CFC-11 eq.	7,29E-07	5,67E-07	1,49E-08	1,38E-10	1,45E-07	1,06E-09	-3,15E-
ODP = Depletion po	otential of the s	tratospheric	ozone layer					
AP	H+ eq.	7,19E-02	4,32E-02	4,04E-03	5,39E-05	2,44E-02	2,18E-04	-1,28E-
AP = Acidification p	otential, Accun	nulated Exce	eedance					
EP-freshwater	kg P eq.	1,37E-03	1,25E-03	1,72E-06	1,11E-07	1,20E-04	1,12E-06	-1,50E-
EP-marine	kg N eq.	1,45E-02	8,21E-03	1,63E-03	2,28E-05	4,62E-03	5,84E-05	-3,08E-
EP-terrestrial	mol N eq.	1,64E-01	9,38E-02	1,78E-02	2,37E-04	5,16E-02	6,34E-04	-3,08E-
EP-freshwater = Eu EP-marine = Eutrop EP-terrestrial = Eutr	hication poten	tial, fraction	of nutrients reac	hing marine en		tment		
POCP	kg NMVOC eq.	5,44E-02	2,68E-02	5,74E-03	6,67E-05	2,15E-02	2,54E-04	-9,00E-
	eq.	,	,	5,74E-03	6,67E-05	2,15E-02	2,54E-04	-9,00E-
POCP = Formation  ADP-minerals  & metals	eq.	,	,	5,74E-03 1,98E-07	6,67E-05 2,09E-08	2,15E-02 6,32E-05	2,54E-04 1,89E-07	
POCP = Formation  ADP-minerals	eq.	pospheric o	zone					-1,17E-
POCP = Formation  ADP-minerals  & metals  ADP-fossil  ADP-minerals & metals	eq. potential of tro  kg Sb eq.  MJ etals = Abiotic of	2,35E-03 9,19E+01 depletion pot	2,29E-03 4,97E+01 rential for non-fos	1,98E-07 2,48E-01	2,09E-08	6,32E-05	1,89E-07	-1,17E-
POCP = Formation  ADP-minerals  & metals	eq. potential of tro  kg Sb eq.  MJ etals = Abiotic of	2,35E-03  9,19E+01 lepletion potossil resource	2,29E-03 4,97E+01 rential for non-fos	1,98E-07 2,48E-01	2,09E-08	6,32E-05	1,89E-07	-9,00E- -1,17E- -1,76E+

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Countries 2004 APP, All circles and a							

#### 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	2,63E+01	1,01E+01	4,64E-02	5,38E-03	1,60E+01	4,16E-02	-4,52E-01
PERM	MJ	1,93E+00	1,93E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	-1,55E+00
PERT	MJ	2,82E+01	1,21E+01	4,64E-02	5,38E-03	1,60E+01	4,16E-02	-2,01E+00
PENRE	MJ	9,18E+01	4,96E+01	2,48E-01	1,45E-02	4,18E+01	1,59E-01	-1,76E+00
PENRM	MJ	7,22E-02	7,22E-02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	-2,13E-03
PENRT	MJ	9,19E+01	4,97E+01	2,48E-01	1,45E-02	4,18E+01	1,59E-01	-1,76E+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 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	2,24E-01	1,71E-01	5,95E-04	3,91E-03	4,78E-02	3,71E-04	-3,39E-03

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	1,70E-02	2,97E-05	0,00E+00	0,00E+00	0,00E+00	1,70E-02	0,00E+00
Non- hazardous waste disposed	kg	7,53E-02	1,39E-04	0,00E+00	2,66E-02	0,00E+00	4,86E-02	0,00E+00
Radioactive waste disposed	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00

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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	2,89E-01	1,48E-01	0,00E+00	1,16E-01	0,00E+00	2,45E-02	0,00E+00
Materials for energy recovery	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	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	0,00E+00	5,85E-02	0,00E+00	-5,85E-02	0,00E+00	0,00E+00	0,00E+00

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## **Optional indicators**

#### **Environmental indicators**

Indicator	Unit	Total	Manu- facturing	Distri- bution	Installation	Use	End of life	Bene- fits
Total use of primary energy during the life cycle	MJ	1,20E+02	6,17E+01	2,94E-01	1,99E-02	5,79E+01	2,00E-01	-3,77E+00
Emissions of fine particles	incidence of diseases	5,71E-07	3,47E-07	9,05E-09	5,93E-10	2,10E-07	3,79E-09	-1,54E-08
lonizing radiation, human health	kBq U235 eq.	5,71E-07	2,75E-01	1,52E-03	7,38E-05	4,10E-01	1,33E-03	-8,62E-03
Ecotoxicity (fresh water)	CTUe	5,71E-07	1,37E+02	1,30E+00	2,06E-01	2,93E+01	2,19E+00	-5,28E+00
Human toxicity, car-cinogenic effects	CTUh	5,71E-07	3,59E-08	8,87E-10	7,54E-11	1,18E-08	4,29E-10	-1,53E-08
Human toxicity, non- carcinogenic effects	incidence of diseases	5,71E-07	2,22E-07	1,08E-08	6,40E-10	7,27E-08	1,42E-09	-4,03E-09
Impact related to land use/soil quality		5,71E-07	3,86E+01	8,33E-01	5,07E-02	1,62E+01	2,86E-01	-8,02E+00

#### Other indicators

Indicator	Unit	Total	Manu- facturing	Distri- bution	Installation	Use	End of life	Bene- fits
No Other indicators used								

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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
Control element 55: KK/U4.55.1 (2CKA006115A0506) + Cover 1-fold: LFW/A.1.55.1-914 (2CKA006199A0170) + BAU KNX: BA/U1.0.1 (2CKA006120A0080)	0,94	0,99	0,99	1,00	0,99	0,99
Control element 55: KK/U4.55.1 (2CKA006115A0506) + Cover 1-fold: LFW/A.1.55.91-916 (2CKA006199A0186) + BAU KNX: BA/U1.0.1 (2CKA006120A0080)	0,95	0,99	0,99	1,00	0,99	0,99
Control element 55: KK/U4.55.1 (2CKA006115A0506) + Cover 1-fold: LFW/A.1.55.1-914 (2CKA006199A0170) + BAU f@h: BAU-F-0.1 (2CKA006220A0999)	0,99	1,00	0,99	1,00	1,00	1,00
Control element 55: KK/U4.55.1 (2CKA006115A0506) + Cover 1-fold: LFW/A.1.55.91-916 (2CKA006199A0186) + BAU f@h: BAU-F-0.1 (2CKA006220A0999)	1,00	1,00	1,00	1,00	1,00	1,00

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## Other references codes

Articel number	Order code	Description German	Description English
LFW/A.0.55.11-CK	2CKA006199A0161	Abdeckung kundenspezifisch	Cover customized
LFW/A.0.55.11-CKL	2CKA006199A0515	Abdeckung kundenspezifisch	Cover customized
LFW/A.0.55.1-CK	2CKA006199A0162	Abdeckung kundenspezifisch	Cover customized
LFW/A.0.55.1-CKL	2CKA006199A0516	Abdeckung kundenspezifisch	Cover customized
LFW/A.2.55.11-914	2CKA006199A0164	Abdeckung 2-fach	Cover 2-fold
LFW/A.3.55.11-914	2CKA006199A0165	Abdeckung 3-fach	Cover 3-fold
LFW/A.4.55.11-914	2CKA006199A0166	Abdeckung 4-fach	Cover 4-fold
LFBT/A.1.55.11-914	2CKA006199A0167	Abdeckung Beleuchtung 1-fach Taster	Cover Light 1-fold Button
LFJT/A.1.55.11-914	2CKA006199A0168	Abdeckung Jalousie 1-fach Taster	Cover Blind 1-fold Button
LFST/A.1.55.11-914	2CKA006199A0169	Abdeckung Szene 1-fach Taster	Cover Scene 1-fold Button
LFDW/A.1.55.11-914	2CKA006199A0335	Abdeckung Dimmen 1-fach Wippe	Cover Dim 1-fold Rocker
LFJW/A.1.55.11-914	2CKA006199A0336	Abdeckung Jalousie 1-fach Wippe	Cover Blind 1-fold Rocker
LFAW/A.1.55.11-914	2CKA006199A0337	Abdeckung Auf/Ab 1-fach Wippe	Cover Up/Down 1-fold Rocker
LFBT/A.2.55.11-914	2CKA006199A0338	Abdeckung Beleuchtung 2-fach Taster	Cover Light 2-fold Button
LFJT/A.2.55.11-914	2CKA006199A0339	Abdeckung Jalousie 2-fach Taster	Cover Blind 2-fold Button
LFST/A.2.55.11-914	2CKA006199A0340	Abdeckung Szene 2-fach Taster	Cover Scene 2-fold Button
LFDW/A.2.55.11-914	2CKA006199A0341	Abdeckung Dim/Jal 2-fach Wippe	Cover Dim/Blind 2-fold Rocker
LFAW/A.2.55.11-914	2CKA006199A0342	Abdeckung Auf/Ab 2-fach Wippe	Cover Up/Down 2-fold Rocker
LFMW/A.4.55.11-914	2CKA006199A0343	Abdeckung Musik 4-fach Taster	Cover Music 4-fold Button
LFW/A.2.55.1-914	2CKA006199A0171	Abdeckung 2-fach	Cover 2-fold
LFW/A.3.55.1-914	2CKA006199A0172	Abdeckung 3-fach	Cover 3-fold
LFW/A.4.55.1-914	2CKA006199A0173	Abdeckung 4-fach	Cover 4-fold
LFBT/A.1.55.1-914	2CKA006199A0174	Abdeckung Beleuchtung 1-fach Taster	Cover Light 1-fold Button
LFJT/A.1.55.1-914	2CKA006199A0175	Abdeckung Jalousie 1-fach Taster	Cover Blind 1-fold Button
LFST/A.1.55.1-914	2CKA006199A0176	Abdeckung Szene 1-fach Taster	Cover Scene 1-fold Button
LFDW/A.1.55.1-914	2CKA006199A0344	Abdeckung Dimmen 1-fach Wippe	Cover Dim 1-fold Rocker
LFJW/A.1.55.1-914	2CKA006199A0345	Abdeckung Jalousie 1-fach Wippe	Cover Blind 1-fold Rocker
LFAW/A.1.55.1-914	2CKA006199A0346	Abdeckung Auf/Ab 1-fach Wippe	Cover Up/Down 1-fold Rocker
LFBT/A.2.55.1-914	2CKA006199A0347	Abdeckung Beleuchtung 2-fach Taster	Cover Light 2-fold Button
LFJT/A.2.55.1-914	2CKA006199A0348	Abdeckung Jalousie 2-fach Taster	Cover Blind 2-fold Button
LFST/A.2.55.1-914	2CKA006199A0349	Abdeckung Szene 2-fach Taster	Cover Scene 2-fold Button
LFDW/A.2.55.1-914	2CKA006199A0350	Abdeckung Dim/Jal 2-fach Wippe	Cover Dim/Blind 2-fold Rocker
LFAW/A.2.55.1-914	2CKA006199A0351	Abdeckung Auf/Ab 2-fach Wippe	Cover Up/Down 2-fold Rocker
LFMW/A.4.55.1-914	2CKA006199A0352	Abdeckung Musik 4-fach Taster	Cover Music 4-fold Button
LFW/A.0.55.91-CK	2CKA006199A0185	Abdeckung kundenspezifisch	Cover customized
LFW/A.0.55.91-CKL	2CKA006199A0537	Abdeckung kundenspezifisch	Cover customized
LFW/A.2.55.91-916	2CKA006199A0187	Abdeckung 2-fach	Cover 2-fold
LFW/A.3.55.91-916	2CKA006199A0188	Abdeckung 3-fach	Cover 3-fold
LFW/A.4.55.91-916	2CKA006199A0189	Abdeckung 4-fach	Cover 4-fold
LFB/A.1.55.91-916	2CKA006199A0499	Abdeckung Beleuchtung 1-fach Taster	Cover Light 1-fold Button
LFJ/A.1.55.91-916	2CKA006199A0500	Abdeckung Jalousie 1-fach Taster	Cover Blind 1-fold Button
LFS/A.1.55.91-916	2CKA006199A0501	Abdeckung Szene 1-fach Taster	Cover Scene 1-fold Button
LFDW/A.1.55.91-916	2CKA006199A0502	Abdeckung Dimmen 1-fach Wippe	Cover Dim 1-fold Rocker
LFJW/A.1.55.91-916	2CKA006199A0503	Abdeckung Jalousie 1-fach Wippe	Cover Blind 1-fold Rocker

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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 subcategories 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 resources (primary energy and primary energy resources used as raw materials)	MJ (lower heating value)

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Verifier accreditation number: VH08	Information and reference documents: www.pep-ecopassport.org			
Date of issue: <b>10-2024</b>	Validity period: <b>5 years</b>			
Independent verification of the declaration and data, in com	pliance with ISO 14025: 2006			
Internal:   External:				
The PCR review was conducted by a panel of experts chaired by Julie ORGELET (DDemain)				
The PCR review was conducted by a panel of experts chaired in	by Julie ORGELET (DDemain)			
The PCR review was conducted by a panel of experts chaired l  PEP are compliant with XP C08-100-1 :2016 or EN 50693:2019  The components of the present PEP may not be compared with program.	Or NE E38-500 :2022			

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