

TIMER KITS WITH SOCKET OUTLET

PEP ecopassport® Product Environmental Profile





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

ORGANIZATION	CONTACT INFORMATION					
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STATUS	SECURITY LEVEL	REGISTRATION NUMBER	REV.	LANG.	PAGE	
Approved	Public	ABBG-00527-V01.01-EN	1	en	1/11	
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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.

Scan QR code for more information:

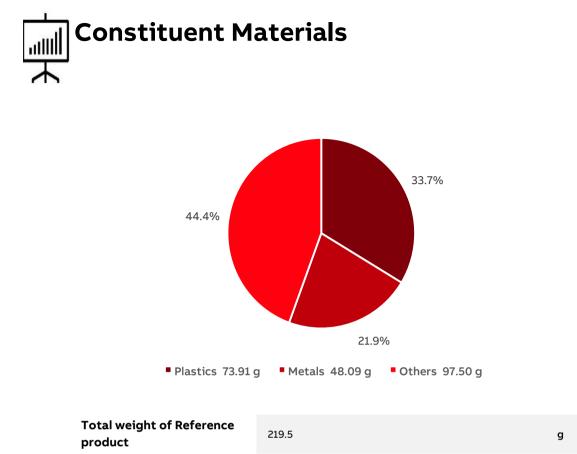




General Information

Reference product	2TKA00005356 The content of this PEP cannot be compared with content based on another program.
Description of the product	Timer kit included timer, single Saga or Jussi socket outlet and installation frame. Fixed time options: 15 min, 30 min, 1 h, 2 h, 4 h and 8 h. Exchangeable labels with the time options to mark center plate with selected time. IP21, 2-pole wiring. 10A resistive load (2300 W), 2AX-load (e.g., fluorescent lamp). Screw terminals max 2,5mm2. Signal light on when device is active. RLS 10 years.
Functional unit	One timer including a socket outlet and an installation frame used for 10 years.
Other products covered	The other products covered by this PEP are listed on page 9.

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Plastics as % of weight		Metals as % of	Metals as % of weight		weight
Name and CAS number	Weight%	Name and CAS number	Weight%	Name and CAS number	Weight%
Bio-circular PC (Polycarbonate)	19.2	Brass	7.3	РСВА	21.7
РС	13.9	Steel	14.6	Cardboard	22.6
РА	0.4	-	-	Paper	0.2
PE film	0.1	-	-	-	-

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. Plastics used for the reference product are halogen-free materials (IEC/61249-2-21) and they are also recyclable.

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$\mathcal{A}_{\underline{s}}^{\rho}$ 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; as well as the generated wastes during the manufacturing process.
Distribution	Includes the transportation of the packaged product from the manufacturer's last logistic platform to the distributor and then to end users.
Installation	Includes the manual installation of the products and the end-of- life of packaging.
Use	Energy consumption is calculated by following the use scenario of the corresponding PSR: Consumed power for each operating mode identified and the duration of the operation modes expressed as percentage of the full cycle time. 80% in Standby mode (5.71W) and 20% in On mode (5.23W). o Socket energy losses with 10% load rate, 30% of RLS and 10 years: 0.12 kWh.
End of life	Includes the transportation of the product to the final end-of- life treatment site and treatment processes. A value of 100 km transport by lorry is used for the transportation.
Benefits and loads beyond the system boundaries	Prevented impacts of recycling materials.

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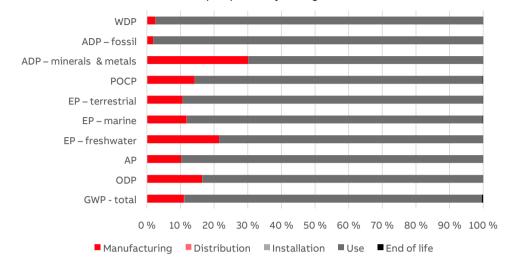
Environmental Impacts

Reference lifetime	10 years
Product category	Other equipment – Active products
Installation elements	End-of-life of the packaging components
Use scenario	Europe
Geographical representativeness	Global
Technological representativeness	Materials and processes data are specific for the production of one SAGA-TIMER KITS WITH SOCKET
Software and database used	Simapro 9.5.0.1 and Ecoinvent 3.9
Energy model used	
Manufacturing	Finland energy mix at high voltage obtained from IEA data
Installation	Non-applicable
Use	Customers´ electricity mix at low voltage (Finland, Sweden, Hungary, South Africa and Lithuania)
End of life	Recycling of product and packaging

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Common base of mandatory indicators

% Environmental Impact per Life Cycle Stage of Reference Product



Environmental impact indicators

Convertion Not of C1 C4, Mg CO2 eq. 338E+01 4.54E+00 1.36E+02 2.38E+04 3.46E+01 1.51E+01 -3.95 GWP-fossil Kg CO2 eq. 3.85E+01 1.30E+02 4.26E+06 1.11E+02 3.55E+01 6.07E+03 -1.05 GWP-fossil = Global Warming Potential fossil fuels GWP-biogenic = Global Warming Potential I and use and land use change 6.07E+03 1.61E+00 5.74E+05 -7.25 GWP-fossil = Global Warming Potential I and use and land use change 1.03E+06 1.69E+07 1.36E+02 2.39E+04 3.46E+01 1.51E+01 -3.95 ODP kg CFC-11 eq. 1.03E+06 1.69E+07 1.36E+02 2.39E+04 3.46E+01 1.51E+01 -3.95 ODP = Depletion potential of the stratospheric ozone layer 1.03E+02 5.06E+05 4.16E+06 2.80E+01 2.71E+04 -4.37 AP = Acidification potential, Accumulated Exceedance 1.07E+07 5.68E+09 2.04E+03 1.11E+06 -6.75 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, fraction of	Indicator	Unit	Total	Manu- facturing	Distri- bution	Installation	Use	End of life	Bene- fits
GWP-biogenic kg CO ₂ eq. 385E-01 1.30E-02 4.26E-06 1.11E-02 3.55E-01 6.07E-03 -1.06 GWP-louluc kg CO ₂ eq. 1.62E+00 8.50E-03 6.79E-06 1.67E-07 1.61E+00 5.74E-05 -7.25 GWP-lossil = Global Warming Potential fossil fuels GWP-louluc = Global Warming Potential biogenic GWP-louluc = Global Warming Potential Induse and land use change 3.46E+01 1.51E-01 -3.95 ODP kg CFC-11 1.03E-06 1.69E-07 1.36E-02 2.39E-04 3.46E+01 1.51E-01 -3.95 ODP kg CFC-11 1.03E-06 1.69E-07 1.36E-02 2.39E-04 3.46E+01 1.51E-01 -3.95 ODP = Depletion potential of the stratospheric ozone layer AP Acidification potential, Accumulated Exceedance 2.00E-01 2.71E-04 4.37 EP-freshwater kg N eq. 2.60E-03 5.58E-04 1.07E-07 5.68E-09 2.04E-03 1.11E-06 -6.75 EP-freshwater kg N eq. 2.60E-03 5.58E-02 2.04E-03 1.67E-05 3.83E-02 8.38E-02	GWP-total	kg CO ₂ eo	4.13E+01	4.56E+00	1.36E-02	1.13E-02	3.66E+01	1.57E-01	-3.97E+00
GWP-luluc kg CO2 eq. L62E+00 8.50E-03 6.79E-06 L67E-07 L61E+00 5.74E-05 -7.25 GWP-fossil = Global Warming Potential fossil fuels GWP-fossil = Global Warming Potential biogenic GWP-fouluc = Global Warming Potential biogenic GWP-fouluc = Global Warming Potential land use and land use change 3.46E+01 1.51E-01 -3.95 ODP kg CFC-11 1.03E-06 1.69E-07 1.36E-02 2.39E-04 3.46E+01 1.51E-01 -3.95 ODP = Depletion potential of the stratospheric ozone layer AP Acdidification potential, Accumulated Exceedance 6.06E-05 4.16E-06 2.80E-01 2.71E-04 4.33 EP-freshwater kg N eq. 3.12E-01 3.18E-02 6.06E-05 1.07E-07 5.68E-09 2.04E-03 1.11E-06 -6.75 EP-freshwater kg N eq. 4.36E-02 5.16E-03 1.89E-05 1.38E-02 8.38E-02 8.38E-02 8.38E-02 8.38E-02 8.38E-02 8.38E-02 8.38E-04 4.24E-08 1.34E-01 2.86E-04 -2.82 POCP kg NMVOC 1.57E-01 2.22E-02 7.	GWP-fossil	kg CO ₂ eo	∂. 3.93E+01	4.54E+00	1.36E-02	2.39E-04	3.46E+01	1.51E-01	-3.95E+0
GWP-fossil = Global Warming Potential fossil fuels GWP-fossil = Global Warming Potential longenic GWP-luluc = Global Warming Potential land use and land use change ODP kg CFC-11 eq. 1.03E-06 1.69E-07 1.36E-02 2.39E-04 3.46E+01 1.51E-01 -3.95 ODP = Depletion potential of the stratospheric ozone layer	GWP-biogenic	kg CO ₂ eo	1. 3.85E-01	1.30E-02	4.26E-06	1.11E-02	3.55E-01	6.07E-03	-1.05E-02
GWP-biogenic = Global Warming Potential land use and land use change Kg CFC-11 eq. 1.03E-06 1.69E-07 1.36E-02 2.39E-04 3.46E+01 1.51E-01 -3.95 ODP = Depletion potential of the stratospheric ozone layer AP H+ eq. 3.12E-01 3.18E-02 6.06E-05 4.16E-06 2.80E-01 2.71E-04 -4.37 AP = Acidification potential, Accumulated Exceedance EP-freshwater kg P eq. 2.60E-03 5.58E-04 1.07E-07 5.68E-09 2.04E-03 1.11E-06 -6.75 EP-freshwater kg N eq. 4.36E-02 5.16E-03 1.89E-05 1.27E-05 3.83E-02 8.38E-04 -7.50 EP-tersetrial mol N eq. 5.49E-01 5.83E-02 2.04E-04 1.67E-05 4.90E-01 8.08E-04 -7.50 EP-tersetrial mol N eq. 5.49E-01 5.83E-02 2.04E-04 1.67E-05 4.90E-01 8.08E-04 -7.50 EP-tersetrial = Eutrophication potential, fraction of nutrients reaching marine end compartment EP-tersetrial = Eutrophication potential, fraction of nutrients reaching marine end compartment EP-tersetrial 3.06E-07 -1.94	GWP-luluc	kg CO ₂ eo	1.62E+00	8.50E-03	6.79E-06	1.67E-07	1.61E+00	5.74E-05	-7.29E-03
ODP eq. 103E-06 1.69E-07 1.36E-02 2.39E-04 3.46E+01 1.51E-01 -3.35 ODP = Depletion potential of the stratospheric ozone layer AP Acidification potential, Accumulated Exceedance 6.06E-05 4.16E-06 2.80E-01 2.71E-04 -4.37 AP = Acidification potential, Accumulated Exceedance EP-freshwater kg P eq. 2.60E-03 5.58E-04 1.07E-07 5.68E-09 2.04E-03 1.11E-06 -6.75 EP-freshwater kg N eq. 4.36E-02 5.16E-03 1.89E-05 1.27E-05 3.83E-02 8.31E-05 6.32 EP-terrestrial mol N eq. 5.49E-01 5.83E-02 2.04E-04 1.67E-05 4.90E-01 8.08E-04 7.56 EP-terrestrial mol N eq. 5.49E-01 5.83E-02 2.04E-04 1.67E-05 4.90E-01 8.08E-04 7.56 EP-terrestrial = Eutrophication potential, fraction of nutrients reaching marine end compartment EP-terrestrial = Eutrophication potential, Accumulated Exceedance 1.34E-01 2.86E-04 -2.82 POCP kg NMVOC eq. 1.57E-01	GWP-biogenic = Glo	obal Warming	Potential bio	genic	hange				
AP H+ eq. 3.12E-01 3.18E-02 6.06E-05 4.16E-06 2.80E-01 2.71E-04 4.37 AP = Acidification potential, Accumulated Exceedance Exceedance 1.07E-07 5.68E-09 2.04E-03 1.11E-06 6.75 EP-freshwater kg N eq. 4.36E-02 5.16E-03 1.89E-05 1.27E-05 3.83E-02 8.31E-05 6.32 EP-terrestrial mol N eq. 5.49E-01 5.83E-02 2.04E-04 1.67E-05 4.90E-01 8.08E-04 -7.50 EP-terrestrial mol N eq. 5.49E-01 5.83E-02 2.04E-04 1.67E-05 4.90E-01 8.08E-04 -7.50 EP-terrestrial Eutrophication potential, fraction of nutrients reaching marine end compartment EP-terrestrial = Eutrophication potential, Accumulated Exceedance 1.34E-01 2.86E-04 -2.82 POCP kg NMVOC 1.57E-01 2.22E-02 7.69E-05 8.36E-06 1.34E-01 2.86E-04 -2.82 POCP = Formation potential of tropospheric ozone ADP-minerals & kg Sb eq. 2.78E-03 8.38E-04 4.24E-08 1.23E-03 3.14E+03 7.47E-01 -5.43 ADP-fossil MJ	ODP	•	L 1.03E-06	1.69E-07	1.36E-02	2.39E-04	3.46E+01	1.51E-01	-3.95E+0
AP = Acidification potential, Accumulated Exceedance EP-freshwater kg P eq. 2.60E-03 5.58E-04 1.07E-07 5.68E-09 2.04E-03 1.11E-06 -6.75 EP-marine kg N eq. 4.36E-02 5.16E-03 1.89E-05 1.27E-05 3.83E-02 8.31E-05 6.32 EP-terrestrial mol N eq. 5.49E-01 5.83E-02 2.04E-04 1.67E-05 4.90E-01 8.08E-04 -7.50 EP-freshwater = Eutrophication potential, fraction of nutrients reaching marine end compartment EP-terrestrial = Eutrophication potential, fraction of nutrients reaching marine end compartment EP-terrestrial = Eutrophication potential, Accumulated Exceedance 8.36E-06 1.34E-01 2.86E-04 -2.82 POCP kg NMVOC eq. 1.57E-01 2.22E-02 7.69E-05 8.36E-06 1.34E-01 2.86E-04 -2.82 POCP = Formation potential of tropospheric ozone ADP-fossil MJ 3.20E+03 6.01E+01 1.92E-01 3.45E-03 3.14E+03 3.06E-07 -1.94 ADP-fossil MJ 3.20E+03 6.01E+01 1.92E-01 3.45E-03 3.14E+03 7.47E-01 -5.43 ADP-fossil ADD+fossil	ODP = Depletion po	otential of the	e stratospherio	c ozone layer					
EP-freshwaterkg P eq.2.60E-035.58E-041.07E-075.68E-092.04E-031.11E-06-6.75EP-marinekg N eq.4.36E-025.16E-031.89E-051.27E-053.83E-028.31E-056.32EP-terrestrialmol N eq.5.49E-015.83E-022.04E-041.67E-054.90E-018.08E-04-7.50EP-freshwater = Eutrophication potential, fraction of nutrients reaching marine end compartment EP-terrestrial = Eutrophication potential, fraction of nutrients reaching marine end compartment EP-terrestrial = Eutrophication potential, Accumulated Exceedance7.69E-058.36E-061.34E-012.86E-04-2.82POCPkg NWVC eq.1.57E-012.22E-027.69E-058.36E-061.34E-012.86E-04-2.82POCP = Formation potential of tropospheric ozone1.92E-013.45E-033.14E+033.06E-07-1.94ADP-fossilMJ3.20E+036.01E+011.92E-013.45E-033.14E+037.47E-01-5.43ADP-minerals & metals = Abiotic depletion potential for non-fossil resources ADP-fossil = Abiotic depletion for fossil resources potential3.94E+018.05E-031.02E+007.69E-048.91E-053.94E+018.05E-03-1.03WDPm³ eq. depr.4.04E+011.02E+007.69E-048.91E-053.94E+018.05E-03-1.03WDP = Water Deprivation potentialSECURITY LEVELREGISTRATION NUMBERREV.LANG.PAGE	AP	H+ eq.	3.12E-01	3.18E-02	6.06E-05	4.16E-06	2.80E-01	2.71E-04	-4.37E-02
EP-marinekg N eq.4.36E-025.16E-031.89E-051.27E-053.83E-028.31E-05-6.32EP-terrestrialmol N eq.5.49E-015.83E-022.04E-041.67E-054.90E-018.08E-04-7.50EP-freshwater = Eutrophication potential, fraction of nutrients reaching marine end compartmentEP-marine = Eutrophication potential, fraction of nutrients reaching marine end compartmentEP-terrestrial = Eutrophication potential, fraction of nutrients reaching marine end compartment2.86E-04-2.82POCPkg NMVOC eq.1.57E-012.22E-027.69E-058.36E-061.34E-012.86E-04-2.82POCP = Formation potential of tropospheric ozone4.24E-081.23E-091.94E-033.06E-07-1.94ADP-minerals & metalskg Sb eq.2.78E-038.38E-044.24E-081.23E-033.14E+033.06E-07-5.43ADP-fossilMJ3.20E+036.01E+011.92E-013.45E-033.14E+033.06E-07-5.43ADP-minerals & metals = Abiotic depletion potential for non-fossil resources ADP-fossil = Abiotic depletion for fossil resources potential7.69E-048.91E-053.94E+018.05E-03-1.03WDPm³ eq. depr.4.04E+011.02E+007.69E-048.91E-053.94E+018.05E-03-1.03WDP = Water Deprivation potentialSECURITY LEVELREGISTRATION NUMBERREV.LANG.PAGE	AP = Acidification p	otential, Accu	umulated Exce	edance					
EP-terrestrial mol N eq. 5.49E-01 5.83E-02 2.04E-04 1.67E-05 4.90E-01 8.08E-04 -7.50 EP-freshwater = Eutrophication potential, fraction of nutrients reaching marine end compartment EP-marine = Eutrophication potential, fraction of nutrients reaching marine end compartment EP-terrestrial = Eutrophication potential, fraction of nutrients reaching marine end compartment -7.50 POCP kg NMVOC eq. 1.57E-01 2.22E-02 7.69E-05 8.36E-06 1.34E-01 2.86E-04 -2.82 POCP = Formation potential of tropospheric ozone 1.57E-01 2.22E-02 7.69E-05 8.36E-06 1.34E-01 2.86E-04 -2.82 POCP = Formation potential of tropospheric ozone 4.24E-08 1.23E-09 1.94E-03 3.06E-07 -1.94 ADP-fossil MJ 3.20E+03 6.01E+01 1.92E-01 3.45E-03 3.14E+03 7.47E-01 -5.43 ADP-minerals & metals = Abiotic depletion potential for non-fossil resources ADP-fossil = Abiotic depletion for fossil resources 3.94E+01 8.05E-03 -1.03 WDP m³ eq. depr. 4.04E+01 1.02E+00 7.69E-04 8.91E-05 3.94E+01 8.05E-03 -1.03 WDP = Water Deprivat	EP-freshwater	kg P eq.	2.60E-03	5.58E-04	1.07E-07	5.68E-09	2.04E-03	1.11E-06	-6.75E-0
EP-freshwater = Eutrophication potential, fraction of nutrients reaching marine end compartment EP-marine = Eutrophication potential, fraction of nutrients reaching marine end compartment EP-marine = Eutrophication potential, fraction of nutrients reaching marine end compartment EP-marine = Eutrophication potential, fraction of nutrients reaching marine end compartment POCP kg NMVOC eq. 1.57E-01 2.22E-02 7.69E-05 8.36E-06 1.34E-01 2.86E-04 -2.82 POCP = Formation potential of tropospheric ozone 4.24E-08 1.23E-09 1.94E-03 3.06E-07 -1.94 ADP-minerals & kg Sb eq. 2.78E-03 8.38E-04 4.24E-08 1.23E-09 1.94E-03 3.06E-07 -1.94 ADP-fossil MJ 3.20E+03 6.01E+01 1.92E-01 3.45E-03 3.14E+03 7.47E-01 -5.43 ADP-minerals & metals = Abiotic depletion potential for non-fossil resources ADP-fossil = Abiotic depletion for fossil resources potential 7.69E-04 8.91E-05 3.94E+01 8.05E-03 -1.03 WDP m³ eq. depr. 4.04E+01 1.02E+00 7.69E-04 8.91E-05 3.94E+01 8.05E-03 -1.03 WDP = Water Deprivation potential REV. LANG. PAGE <	EP-marine	kg N eq.	4.36E-02	5.16E-03	1.89E-05	1.27E-05	3.83E-02	8.31E-05	-6.32E-0
EP-marine = Eutrophication potential, fraction of nutrients reaching marine end compartment POCP kg NMVOC eq. 1.57E-01 2.22E-02 7.69E-05 8.36E-06 1.34E-01 2.86E-04 -2.82 POCP = Formation potential of tropospheric ozone ADP-minerals & kg Sb eq. 2.78E-03 8.38E-04 4.24E-08 1.23E-09 1.94E-03 3.06E-07 -1.94 ADP-fossil MJ 3.20E+03 6.01E+01 1.92E-01 3.45E-03 3.14E+03 7.47E-01 -5.43 ADP-fossil = Abiotic depletion potential for non-fossil resources ADP-fossil = Abiotic depletion for fossil resources potential 1.02E+00 7.69E-04 8.91E-05 3.94E+01 8.05E-03 -1.03 WDP m³ eq. depr. 4.04E+01 1.02E+00 7.69E-04 8.91E-05 3.94E+01 8.05E-03 -1.03 WDP m³ eq. depr. 4.04E+01 1.02E+00 7.69E-04 8.91E-05 3.94E+01 8.05E-03 -1.03 WDP m³ eq. depr. 4.04E+01 1.02E+00 7.69E-04 8.91E-05 3.94E+01 8.05E-03 -1.03 WDP security Level REGISTRATION NUMBER REV. LANG. PAGE	EP-terrestrial	mol N eq.	5.49E-01	5.83E-02	2.04E-04	1.67E-05	4.90E-01	8.08E-04	-7.50E-0
POCP i.57E-01 2.22E-02 7.69E-05 8.36E-06 i.34E-01 2.86E-04 -2.82 POCP = Formation potential of tropospheric ozone ADP-minerals & kg Sb eq. 2.78E-03 8.38E-04 4.24E-08 1.23E-09 1.94E-03 3.06E-07 -1.94 ADP-fossil MJ 3.20E+03 6.01E+01 1.92E-01 3.45E-03 3.14E+03 7.47E-01 -5.43 ADP-minerals & metals = Abiotic depletion potential for non-fossil resources ADP-fossil = Abiotic depletion for fossil resources potential 7.69E-04 8.91E-05 3.94E+01 8.05E-03 -1.03 WDP m³ eq. depr. 4.04E+01 1.02E+00 7.69E-04 8.91E-05 3.94E+01 8.05E-03 -1.03 WDP = Water Deprivation potential REGISTRATION NUMBER REV. LANG. PAGE	EP-marine = Eutrop	phication pote	ential, fraction	of nutrients rea	aching marine e		artment		
ADP-minerals & metals kg Sb eq. 2.78E-03 8.38E-04 4.24E-08 1.23E-09 1.94E-03 3.06E-07 -1.94 ADP-fossil MJ 3.20E+03 6.01E+01 1.92E-01 3.45E-03 3.14E+03 7.47E-01 -5.43 ADP-minerals & metals = Abiotic depletion potential for non-fossil resources ADP-fossil = Abiotic depletion for fossil resources potential 7.47E-01 1.04E+01 1.02E+00 7.69E-04 8.91E-05 3.94E+01 8.05E-03 -1.03 WDP m³ eq. depr. 4.04E+01 1.02E+00 7.69E-04 8.91E-05 3.94E+01 8.05E-03 -1.03 WDP = Water Deprivation potential SECURITY LEVEL REGISTRATION NUMBER REV. LANG. PAGE	РОСР	•	C 1.57E-01	2.22E-02	7.69E-05	8.36E-06	1.34E-01	2.86E-04	-2.82E-02
kg Sb eq. 2.78E-03 8.38E-04 4.24E-08 1.23E-09 1.94E-03 3.06E-07 -1.94 ADP-fossil MJ 3.20E+03 6.01E+01 1.92E-01 3.45E-03 3.14E+03 7.47E-01 -5.43 ADP-minerals & metals = Abiotic depletion potential for non-fossil resources ADP-fossil = Abiotic depletion for fossil resources potential 7.69E-04 8.91E-05 3.94E+01 8.05E-03 -1.03 WDP m³ eq. depr. 4.04E+01 1.02E+00 7.69E-04 8.91E-05 3.94E+01 8.05E-03 -1.03 WDP = Water Deprivation potential REGISTRATION NUMBER REV. LANG. PAGE	POCP = Formation	potential of t	ropospheric o	zone					
ADP-minerals & metals = Abiotic depletion potential for non-fossil resources ADP-fossil = Abiotic depletion for fossil resources potential WDP m³ eq. depr. 4.04E+01 1.02E+00 7.69E-04 8.91E-05 3.94E+01 8.05E-03 -1.03 WDP = Water Deprivation potential REGISTRATION NUMBER REV. LANG. PAGE		kg Sb eq.	2.78E-03	8.38E-04	4.24E-08	1.23E-09	1.94E-03	3.06E-07	-1.94E-03
ADP-fossil = Abiotic depletion for fossil resources potential WDP m³ eq. depr. 4.04E+01 1.02E+00 7.69E-04 8.91E-05 3.94E+01 8.05E-03 -1.03 WDP = Water Deprivation potential TATUS SECURITY LEVEL REGISTRATION NUMBER REV. LANG. PAGE	ADP-fossil	MJ	3.20E+03	6.01E+01	1.92E-01	3.45E-03	3.14E+03	7.47E-01	-5.43E+0
WDP = Water Deprivation potential TATUS SECURITY LEVEL REGISTRATION NUMBER REV. LANG. PAGE					ossil resources				
TATUS SECURITY LEVEL REGISTRATION NUMBER REV. LANG. PAGE	WDP	m³ eq. dep	or. 4.04E+01	1.02E+00	7.69E-04	8.91E-05	3.94E+01	8.05E-03	-1.03E+0
	WDP = Water Depri	vation potent	ial						
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Common base of mandatory indicators

Indicator	Unit	Total	Manu- facturing	Distri- bution	Installation	Use	End of life	Bene- fits
PERE	MJ	1.30E+03	6.10E+00	2.92E-03	4.76E-04	1.29E+03	4.13E-02	-5.91E+00
PERM	MJ	5.66E-01	5.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PERT	MJ	1.30E+03	6.66E+00	2.92E-03	4.76E-04	1.29E+03	4.13E-02	-5.91E+00
PENRE	МЈ	3.19E+03	5.75E+01	1.92E-01	3.45E-03	3.13E+03	7.47E-01	-5.43E+01
PENRM	МЈ	2.59E+00	2.59E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PENRT	MJ	3.19E+03	6.01E+01	1.92E-01	3.45E-03	3.13E+03	7.47E-01	-5.43E+01

Inventory flows indicator – Resource use indicators

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	2.75E+00	5.43E-02	2.69E-05	7.80E-06	2.70E+00	2.87E-04	-3.52E-02

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	1.27E+01	5.49E-01	9.04E-03	7.02E-03	1.20E+01	1.18E-01	-4.56E-01
Non- hazardous waste disposed	kg	4.54E-02	1.08E-04	6.08E-08	7.31E-09	4.53E-02	5.61E-07	-1.08E-04
Radioactive waste disposed	kg	1.30E+03	6.66E+00	2.92E-03	4.76E-04	1.29E+03	4.13E-02	-5.91E+00

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Common base of mandatory 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	1.82E-01	0.00E+00	0.00E+00	4.09E-02	0.00E+00	1.41E-01	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 flows indicator – Output flow indicators

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	3.34E-02	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
2TKA00005356	1.00	1.00	1.00	1.00	1.00	1.00
2TKA00005392	2.42	2.42	1.26	1.00	2.76	2.76
2TKA00001740	1.47	1.47	1.26	1.00	1.53	1.53
2TKA00001741	0.96	0.96	1.00	1.00	0.95	0.95

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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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Internal: 🔿	External: 🖲				
Document in complian environmental declara	ice with ISO 14025: 2006 "Environmental lat tions"	pels and declarations. Type III			
PEP are compliant with XP C08-100-1 :2016 or EN 50693:2019 The elements of the present PEP cannot be compared with elements from any other program.					
Document in complian environmental declara	ice with ISO 14025: 2006 "Environmental lat tions"	pels and declarations. Type III	PORT		

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