Product Environmental Profile

TA/TA-E/TA-EN/TA-S/TA-G/TA-N trunking system

Company information

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References covered

TA/TA-E/TA-EN/TA-S/TA-G/TA-N trunking systems, all colours and dimensions covered, including accessories. (B003xx, B0100x, B0137x, B0178x, B0179x, B013xx, B0178x, B0179x, B018xx)

Methodology

PEP has been performed according to the PCR version PEP–PCR–ed3-2015 04 02 and PSR version PSR-0003-ed1.1-2015 10 16 issued by the PEP ecopassport program.
For further information, please see the website of the program www.pep-ecopassport.org

Reference product

Reference product identification

TA-E 60x40, depth 40, grey RAL 7030, trunking system (B01821)

PSR product Category :

Distribution trunking systems and conduit systems

Functional unit

Accommodate and protect the wiring along 1 meter for a reference life time of 20 years.
The distribution trunking system with cross-section 1960 mm² includes the profile and accessories that are representative of standard use.

The functional unit is based on the use scenario recommended by the PCR for the category of the reference product.

Materials and substances

All useful measures have been adopted to ensure that the materials used in the composition of the product do not contain any substances banned by the legislation in force at the time of marketing.

Plastics			Metals			Others		
	g	%		g	%		g	%
PVC	467.47	66.5%	Calcium	9.02	1.3%	Calcium Carbonate	108.57	15.4%
PE-LD	13.50	1.9%	Zinc	4.16	0.6%	Cardboard + Paper	78.74	11.2%
ABS	8.15	1.2%	Silicon	0.08	<0.1%	Titanium dioxide	12.06	1.7%
						Synthetic oil	1.81	0.3%
						Other	0.82	0.1%
Total mass of reference product :			**703.2 g**					

Manufacturing

These products are manufactured by a site that has received an environmental certification ISO 14001.

Distribution

The packaging has been designed in accordance with current regulations. In particular, the European directive 94/62/CE relative to packaging and packaging waste.
The used packaging is 100% recyclable or recoverable.
Packaging and logistic flows are continuously improved in order to reduce their impact.

Installation

Installation processes

The processes to install the product are not considered in this study because of their weak impact compared to the other life cycles steps.

Installation elements (non delivered with the product)

Elements non delivered with the product and needed to install the product are not considered.

Use

For the considered scenario, the product has no energy consumption.

Energy model of the use phase :

None

Consumables and maintenance :

None

End of life

Considering the complexity and the lack of knowledge of the electric and electronic recycling channel and processes, the standard scenario set in the PCR is considered.

The recycling potential of the product is: 4%. The calculation of this rate is based on the method of the IEC/TR 62635.

Environmental impacts

Evaluation of the environmental impact covers the following life cycle stages: raw materials + manufacturing (RMM), distribution (D), installation (I), use (U) and end of life (EoL).

All calculations are done with EIME software version 5.8.1 with the database version HAGER-CODDE-2018-11 .

PEP representative of the covered products marketed in: Europe

Energy models considered for each phase

Manufacturing RMM	Distribution D	Installation I	Use U	End Of Life EoL
Europe	-	Europe	-	Europe

Environmental impact indicators

Indicators	Unit	Manufacturing RMM	Distribution D	Installation I	Use U	End Of Life EoL	GLOBAL
Global Warming	kg CO_2 eq.	1.58E+00	1.22E-01	5.67E-03	0.00E+00	7.34E-02	1.78E+00
Ozone Depletion	kg CFC-11 eq.	9.27E-08	2.48E-10	3.87E-11	0.00E+00	1.88E-09	9.48E-08
Acidification of soil and water	kg SO2 eq	2.51E-03	5.50E-04	2.78E-05	0.00E+00	2.79E-04	3.37E-03
Eutrophication	kg PO_4^{3-} eq.	5.82E-04	1.26E-04	3.00E-05	0.00E+00	3.19E-04	1.06E-03
Photochemical Ozone Creation	kg C_2H_4 eq.	1.77E-04	3.91E-05	1.96E-06	0.00E+00	2.18E-05	2.40E-04
Depletion of abiotic resources - elements	kg Sb eq	2.80E-06	4.90E-09	2.46E-10	0.00E+00	4.73E-09	2.81E-06
Depletion of abiotic resources – fossil fuels	MJ	1.92E+01	1.72E+00	7.57E-02	0.00E+00	7.15E-01	2.17E+01
Water Pollution	m^3	2.83E+02	2.01E+01	8.77E-01	0.00E+00	8.29E+00	3.12E+02
Air Pollution	m^3	3.60E+02	5.02E+00	7.16E-01	0.00E+00	8.71E+00	3.75E+02

Resource use indicators

Indicators	Unit	Manufacturing RMM	Distribution D	Installation I	Use U	End Of Life EoL	GLOBAL
Use of renewable primary energy, excluding renewable primary energy resources used as raw materials	MJ	2.46E+00	2.31E-03	8.91E-04	0.00E+00	2.01E-02	2.49E+00
Use of renewable primary energy resources as raw materials	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Total use of renewable primary energy resources	MJ	2.46E+00	2.31E-03	8.91E-04	0.00E+00	2.01E-02	2.49E+00
Use of non-renewable primary energy, excluding non renewable primary energy resources used as raw materials	MJ	4.81E+01	1.73E+00	7.70E-02	0.00E+00	7.80E-01	5.07E+01
Use of non-renewable primary energy resources as raw materials	MJ	8.86E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.86E-01
Total use of non renewable primary energy resources	MJ	4.90E+01	1.73E+00	7.70E-02	0.00E+00	7.80E-01	5.16E+01
Total use of primary energy	MJ	5.14E+01	1.73E+00	7.79E-02	0.00E+00	8.00E-01	5.41E+01
Use of secondary materials	kg	7.39E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.39E-02
Use of renewable secondary fuels	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of non-renewable secondary fuels	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Net fresh water use	m^3	1.39E-02	1.10E-05	1.77E-06	0.00E+00	6.47E-05	1.40E-02

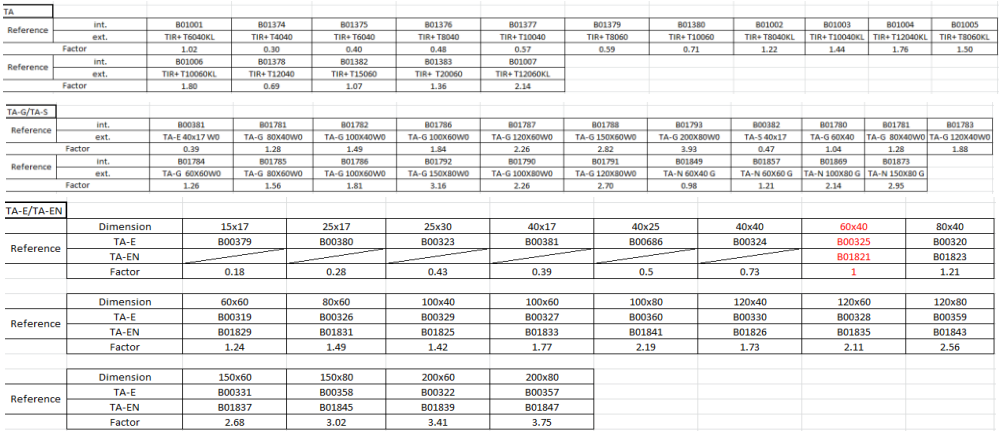
Waste category indicators

Indicators	Unit	Manufacturing RMM	Distribution D	Installation I	Use U	End Of Life EoL	GLOBAL
Hazardous waste disposed	kg	1.79E+00	4.35E-03	9.38E-02	0.00E+00	6.84E-01	2.58E+00
Non-hazardous waste disposed	kg	2.56E-02	0.00E+00	2.07E-05	0.00E+00	3.25E-04	2.60E-02
Radioactive waste disposed	kg	6.24E-04	3.10E-06	4.82E-07	0.00E+00	2.34E-05	6.51E-04

Output flow indicators

Indicators	Unit	Manufacturing RMM	Distribution D	Installation I	Use U	End Of Life EoL	GLOBAL
Components for re-use	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Materials for recycling	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	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
Exported energy	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

To evaluate the environmental impact of another product covered by this PEP, multiply the impact figures by the corresponding factor:



TA

Reference	int.	B01001	B01374	B01375	B01376	B01377	B01379	B01380	B01002	B01003	B01004	B01005
	ext.	TIR+ T6040KL	TIR+ T4040	TIR+ T6040	TIR+ T8040	TIR+ T10040	TIR+ T8060	TIR+ T10060	TIR+ T8040KL	TIR+ T10040KL	TIR+ T12040KL	TIR+ T8060KL
	Factor	1.02	0.30	0.40	0.48	0.57	0.59	0.71	1.22	1.44	1.76	1.50
Reference	int.	B01006	B01378	B01382	B01383	B01007						
	ext.	TIR+ T10060KL	TIR+ T12040	TIR+ T15060	TIR+ T20060	TIR+ T12060KL						
	Factor	1.80	0.69	1.07	1.36	2.14						

TA-G/TA-S

Reference	int.	B00381	B01781	B01782	B01786	B01787	B01788	B01793	B00382	B01780	B01781	B01783
	ext.	TA-E 40x17 W0	TA-G 80X40W0	TA-G 100X40W0	TA-G 100X60W0	TA-G 120X60W0	TA-G 150X60W0	TA-G 200X80W0	TA-S 40x17	TA-G 60X40	TA-G 80X40W0	TA-G 120X40W0
	Factor	0.39	1.28	1.49	1.84	2.26	2.82	3.93	0.47	1.04	1.28	1.88
Reference	int.	B01784	B01785	B01786	B01792	B01790	B01791	B01849	B01857	B01869	B01873	
	ext.	TA-G 60X60W0	TA-G 80X60W0	TA-G 100X60W0	TA-G 150X80W0	TA-G 100X80W0	TA-G 120X80W0	TA-N 60X40 G	TA-N 60X60 G	TA-N 100X80 G	TA-N 150X80 G	
	Factor	1.26	1.56	1.81	3.16	2.26	2.70	0.98	1.21	2.14	2.95	

TA-E/TA-EN

	Dimension	15x17	25x17	25x30	40x17	40x25	40x40	60x40	80x40
Reference	TA-E	B00379	B00380	B00323	B00381	B00686	B00324	B00325	B00320
	TA-EN							B01821	B01823
	Factor	0.18	0.28	0.43	0.39	0.5	0.73	1	1.21

	Dimension	60x60	80x60	100x40	100x60	100x80	120x40	120x60	120x80
Reference	TA-E	B00319	B00326	B00329	B00327	B00360	B00330	B00328	B00359
	TA-EN	B01829	B01831	B01825	B01833	B01841	B01826	B01835	B01843
	Factor	1.24	1.49	1.42	1.77	2.19	1.73	2.11	2.56

	Dimension	150x60	150x80	200x60	200x80
Reference	TA-E	B00331	B00358	B00322	B00357
	TA-EN	B01837	B01845	B01839	B01847
	Factor	2.68	3.02	3.41	3.75

Verification

Registration N°: HAGE-00560-V01.01-EN	Drafting Rules PEP–PCR–ed3-2015 04 02
	Supplemented by PSR-0003-ed1.1-2015 10 16
Verifier accreditation N°: VH03	Information and reference documents: www.pep-ecopassport.org
Date of issue: 6-2020	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 C08-100-1:2014 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 »	

Nota :

The picture has no contractual value.

All numerical values indicated in this document may vary and depend of many factors such as the tolerance related to materials, the usage and environment conditions of the products, installation characteristics … , real values for a product in a concrete application may therefore change.

The usage time mentioned in this document is an average duration chosen for the need of the calculations. This value cannot be assimilated to the minimum, average or real life time.

The responsibility of the company, issuing this document, can never be engaged if differences would be noticed between the values given by this document and real ones, whatever the causes and/or consequences would be.