

## 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](http://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 mm<sup>2</sup> 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 <sub>2</sub> 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 SO <sub>2</sub> eq.	2.51E-03	5.50E-04	2.78E-05	0.00E+00	2.79E-04	3.37E-03
Eutrophication	kg PO <sub>4</sub> <sup>3-</sup> eq.	5.82E-04	1.26E-04	3.00E-05	0.00E+00	3.19E-04	1.06E-03
Photochemical Ozone Creation	kg C <sub>2</sub> H <sub>4</sub> 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 <sup>3</sup>	2.83E+02	2.01E+01	8.77E-01	0.00E+00	8.29E+00	3.12E+02
Air Pollution	m <sup>3</sup>	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 <sup>3</sup>	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	int.	801001	801374	801375	801376	801377	801379	801380	801002	801003	801004	801005
Reference	ext.	TIR+ T5040KL	TIR+ T4040	TIR+ T5040	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.	801006	801378	801382	801383	801007						
	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	int.	800381	801781	801782	801786	801787	801788	801793	800382	801780	801781	801783
Reference	ext.	TA-E 40x17 W0	TA-G 80x40W0	TA-G 100x40W0	TA-G 150x60W0	TA-G 120x80W0	TA-G 150x80W0	TA-G 200x80W0	TA-S 40x17	TA-G 80x40	TA-G 80x40W0	TA-G 120x40W0
	Factor	0.39	1.28	1.49	1.94	2.26	2.82	3.93	0.47	1.04	1.28	1.98
Reference	int.	801784	801785	801786	801792	801790	801791	801845	801857	801869	801873	
	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		B00320
	TA-EN							B01821		B01823		B01823
	Factor		0.18	0.28	0.43	0.39	0.5	0.73	1			1.21
Reference	Dimension	60x60	80x60	100x40	100x60	100x80	120x40	120x60	120x60	120x80	120x80	
	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			
Reference	Dimension	150x60	150x80	200x60	200x80							
	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: <a href="http://www.pep-ecopassport.org">www.pep-ecopassport.org</a>	
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.  
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