

Product Environmental Profile

DNG, LKG and BA6 series wiring duct



Company information

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A question concerning the Product Environmental Profile:
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References covered

DNG, LKG and BA6 series, all dimensions and colors covered including profiles (base + cover) and needed accessories:

Series BA6: 18x15, 33x20, 43x20, 63x20, 33x25, 43x31, 64x31*, 84x31, 21x32, 33x47, 43x47, 64x47, 84x47, 43x67, 64x67, 84x67, 44x88, 64x88, 84x88, 65x108, 85x108, 44x129, 65x129, 85x129, 65x159, 65x209

Series DNG: 20x20, 37x20, 50x20, 25x25, 50x25, 75x25, 25x37, 37x37, 50x37, 75x37, 50x50, 75x50, 100x50, 50x75, 75x75, 100x75, 50x100, 75x100, 100x100, 50x125, 75x125

Series LKG: 37x25, 37x37, 50x37, 37x50, 50x50, 75x50, 37x75, 50x75, 75x75, 37x100, 50x100, 75x100, 50x125, 75x125, 50x140

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

BA6 series wiring duct 64x31- BA66002507030B (base + cover)

PSR product Category :

Slotted cable trunking systems for cabinets

Functional unit

Accomodate and protect the wiring along 1 meter for a reference life time of 20 years. The Slotted cable trunking system for cabinets with cross section 1984 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	338.35	73.4%	Calcium	6.53	1.4%	Calcium Carbonate	78.57	17.1%
			Others	3.01	0.7%	Cardboard + Paper	23.70	5.1%
						Titanium dioxide	8.73	1.9%
						Others	1.89	0.4%
Total mass of reference product :				460.7 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: 3%. 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 5.9.3 with the database version CODDE-2022-01 .

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.	1.43E+00	8.02E-02	1.47E-03	0.00E+00	5.24E-02	1.56E+00
Ozone Depletion	kg CFC-11 eq.	4.35E-07	1.63E-10	1.00E-11	0.00E+00	1.34E-09	4.37E-07
Acidification of soil and water	kg SO ₂ eq.	2.42E-03	3.61E-04	7.22E-06	0.00E+00	2.00E-04	2.99E-03
Eutrophication	kg PO ₄ ³⁻ eq.	5.86E-04	8.29E-05	7.78E-06	0.00E+00	2.27E-04	9.04E-04
Photochemical Ozone Creation	kg C ₂ H ₄ eq.	3.25E-04	2.56E-05	5.09E-07	0.00E+00	1.56E-05	3.67E-04
Depletion of abiotic resources - elements	kg Sb eq.	1.90E-06	3.21E-09	6.39E-11	0.00E+00	3.38E-09	1.90E-06
Depletion of abiotic resources – fossil fuels	MJ	2.69E+01	1.13E+00	1.96E-02	0.00E+00	5.10E-01	2.85E+01
Water Pollution	m ³	2.98E+02	1.32E+01	2.28E-01	0.00E+00	5.92E+00	3.18E+02
Air Pollution	m ³	3.09E+02	3.29E+00	1.86E-01	0.00E+00	6.22E+00	3.19E+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	2.36E+00	1.51E-03	2.31E-04	0.00E+00	1.44E-02	2.38E+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	2.36E+00	1.51E-03	2.31E-04	0.00E+00	1.44E-02	2.38E+00
Use of non-renewable primary energy, excluding non renewable primary energy resources used as raw materials	MJ	2.36E+01	1.13E+00	2.00E-02	0.00E+00	5.57E-01	2.53E+01
Use of non-renewable primary energy resources as raw materials	MJ	7.65E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.65E+00
Total use of non renewable primary energy resources	MJ	3.13E+01	1.13E+00	2.00E-02	0.00E+00	5.57E-01	3.30E+01
Total use of primary energy	MJ	3.36E+01	1.13E+00	2.02E-02	0.00E+00	5.72E-01	3.54E+01
Use of secondary materials	kg	1.98E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-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	1.37E-01	7.18E-06	4.60E-07	0.00E+00	4.62E-05	1.37E-01

Waste category indicators

Indicators	Unit	Manufacturing RMM	Distribution D	Installation I	Use U	End Of Life EoL	GLOBAL
Hazardous waste disposed	kg	2.73E-01	2.85E-03	2.44E-02	0.00E+00	4.88E-01	7.89E-01
Non-hazardous waste disposed	kg	5.10E-02	0.00E+00	5.38E-06	0.00E+00	2.32E-04	5.13E-02
Radioactive waste disposed	kg	1.00E-04	2.03E-06	1.25E-07	0.00E+00	1.67E-05	1.19E-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

The environmental impact of a system covered by the PEP Ecopassport® other than the reference system for which it was drawn up can be calculated by multiplying the values of the environmental indicators by the corresponding factor.

Series	BA6	DNG	BA6	DNG	BA6	DNG	LKG	BA6	DNG	BA6	DNG	LKG	BA6	DNG
Dimension	18x15	20x20	33x20	25x25 37x20	43x20	50x20 50x25	37x25	21x32	25x37 37x37	33x25 43x31	50x37	37x37	63x20	75x25
Factor	0.3		0.4		0.5			0.6		0.7			0.8	


Series	BA6	LKG	BA6*	DNG	LKG	DNG	LKG	BA6	DNG	LKG	LKG	BA6	DNG	
Dimension	33x47	50x37	43x47 64x31*	50x50 75x37	37x50	75x50	50x50	43x67 64x47 84x31	50x75	37x75	50x75 75x50	64x67 84x47	100x50 75x75	
Factor	0.9		1*		1.2			1.3		1.4		1.6		1.7

*Reference product

Series	BA6	DNG	LKG	BA6	LKG	DNG	LKG	DNG	BA6	DNG	DNG	BA6		
Dimension	44x88	50x100	37x100 75x75	84x67	50x100	100x75	50x125	75x100	64x88	50x125	100x100	44x129 84x88		
Factor	1.8			1.9			2		2.2		2.3		2.4	2.5

Series	BA6	LKG	DNG	LKG	BA6	BA6	LKG	BA6	BA6	BA6
Dimension	65x108	75x100	75x125	50x140	65x129	85x108	75x125	85x129	65x159	65x209
Factor	2.6		2.7	2.8	3	3.1		3.3	3.7	4.6

Verification

Registration N°: HAGE-00683-V01.01-EN	Drafting Rules	PEP-PCR-ed3-2015 04 02
	Supplemented by	PSR-0003-ed1.1-2015 10 16
Verifier accreditation N°: VH35	Information and reference documents: www.pep-ecopassport.org	
Date of issue: 4-2022	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.