

Product Environmental Profile

Voice & Data Plates for Simon K45, Simon 400, Simon 500 Cima and Simon Cima ranges



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Independent verification of the declaration and data, in compliance with ISO 14025:2006				
Internal		External	X	
The PCR review was conducted by a panel of experts chaired by Julie ORGELET (DDemain)				
PEP are complaint with XP CO08-100-1:2016 or EN 50693:2019				
The elements of the present PEP cannot be compared with elements from another program.				
Document in compliance with ISO 14025:2006 "Environmental labels and declarations. Type III environmental declarations"				

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Product description and homogeneous environmental family

This Product Environmental Profile (PEP) includes voice and data plates for Simon K45, Simon 400, Simon 500 Cima and Simon Cima ranges. The PEP includes a group of similar products, which all belong to the same product family.

Voice and data plates are appliance covers used for protecting network connections from dust, physical damage and foreign objects. The covered plates have the same main functionality and the same applicable standards: EN 50173-1:2018+EN IEC 63000:2018.

The differences between the voice and data plates of this homogeneous environmental family fall mainly on the design differences of the ranges included: K45, 400, 500 Cima and Cima. Each design range has a characteristic shape. In addition to this, the colour of each product and the type of plates (flat and angled) also represent variations within the family. Nevertheless, all the products are made of the same materials (mainly polycarbonate) with the same manufacturing method.

The reference product of the family is **K76/9 flat voice and data plate of K45 range with dust cover for 1 AMP, Brand Rex, Systimax, Krone and Belden connections**. Extrapolation coefficients will be calculated and applied for each stage of the life cycle to calculate the impacts of the other products of the family.

Functional unit

Functional unit: "Voice and data plate with a degree of protection IP20 with a reference lifetime of 20 years.

Dimensions: 45 x 45 x 8.5 mm".

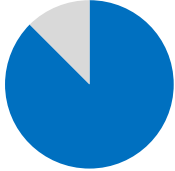
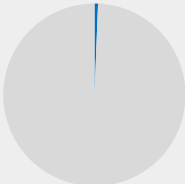

The reference flow is the product itself with its unitary packaging:

- Product with packaging: 13.03 g
- Product without packaging: 11.48 g

The reference lifetime is defined by the corresponding Product Specific Rules for this type of products in 20 years.

Constituent materials

The reference product consists of three polycarbonate parts: the plate, the window and the adapter, which are assembled with a steel spring. The packaging of the reference product is a labelled cardboard box.

	Material	Weight	Percentage
Plastics 87.52 % 	Polycarbonate	11.40 g	87.52 %
	Metals 0.61 % 	Steel	0.08 g
Packaging 11.86 % 	Cardboard	1.50 g	11.52 %
	Paper	0.05 g	0.35 %
Reference product		11.48 g	87.52 %
Packaging		1.55 g	11.86 %
TOTAL		13.03 g	100 %

Manufacturing stage

This stage includes the production, industrial transformation, manufacturing processes and transportation of raw materials and components making up the reference product. The raw materials of the product received from suppliers are transformed, assembled, packaged and tested by Simon in their manufacturing plant in Martorelles (Spain). The generated waste attributed to the manufacturing of the reference product have also been considered. In addition to these aspects, this stage also includes the transport from the packaging plant to Simon's last logistics platform in Spain, from where the products are distributed to the customers throughout the world.

Distribution stage

The products are directly distributed from Simon's logistics platform to the final customers. The distribution scenario comprises the following destinations:

Destination	Percentage (%)	Type of transport
Spain	64.90 %	Continental transport
Poland	24.04 %	Continental transport
Portugal	2.50 %	Continental transport
France	2.42 %	Continental transport
Sweden	2.01 %	Continental transport
Morocco	1.48 %	Intercontinental transport
Bulgaria	0.96 %	Continental transport
Germany	0.67 %	Continental transport
Russia	0.52 %	Continental transport
Georgia	0.10 %	Continental transport
Italy	0.07 %	Continental transport
Peru	0.07 %	Intercontinental transport
Latvia	0.06 %	Continental transport
Equatorial Guinea	0.06 %	Intercontinental transport
Belgium	0.04 %	Continental transport
Reunion	0.04 %	Intercontinental transport
Estonia	0.04 %	Continental transport
Slovenia	0.01 %	Continental transport
Romania	< 0.00 %	Continental transport
Algeria	< 0.00 %	Intercontinental transport

Installation stage

The Installation stage of the voice and data plates consists of the manual assembly of the reference product by the customer, without energy consumption. The product is packaged without any additional component apart from the plates itself (disposed in the end-of-life stage) and the packaging (disposed in the installation stage). For this reason, no installation waste must be considered in the installation of the product apart from the packaging waste. The scenario for the end-of-life of the packaging components has been determined by the PSR for the distribution scope.

Use stage

Due to the nature of the product, no aspect (i.e. maintenance and energy consumption) is included in this stage during its reference lifetime (20 years).

End of life stage

In the end-of-life stage, the following aspects were considered:

- The transportation of the components to the treatment site. As there is no data available for the end-of-life stage, the PSR indicates to take 1,000 km by lorry into consideration.
- The treatment process of the reference product.

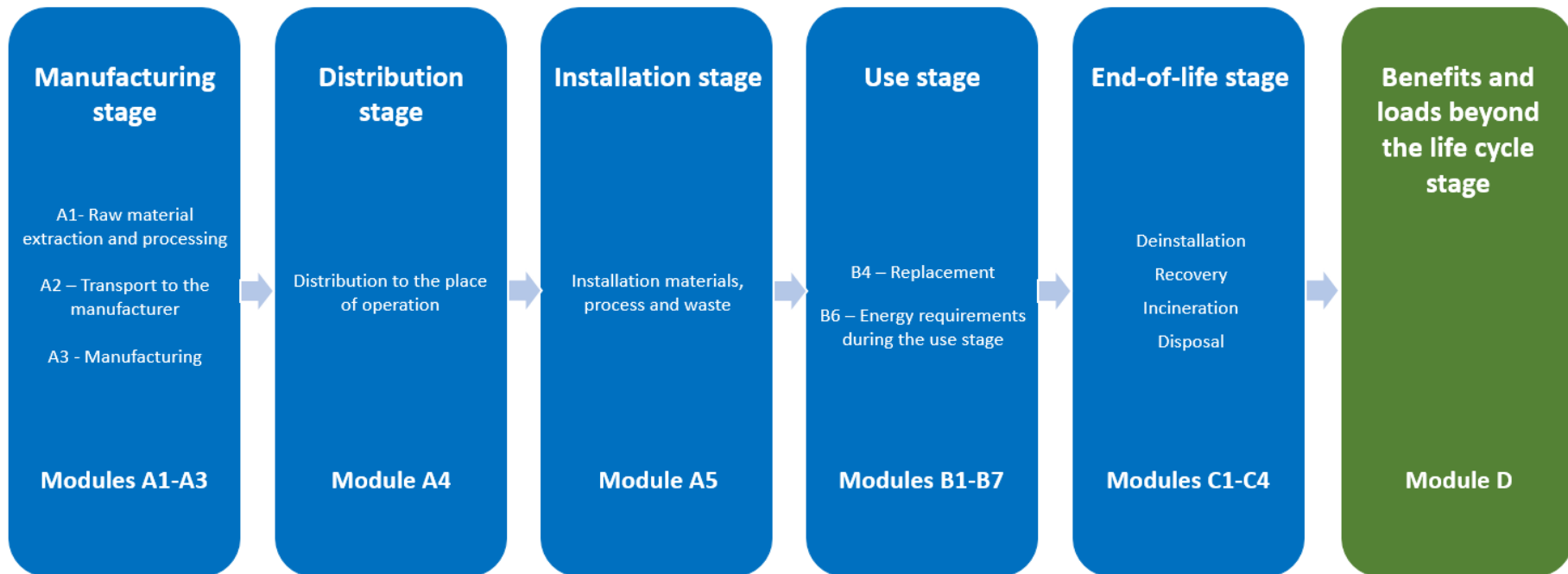
The reference product is covered by the WEEE Directive 2012/19/EU, and therefore its end-of-life is regulated. To reach the main EU objectives on recycling of this kind of products, the waste management of the reference product should be taken care by a producer responsibility organisation.

For the product end-of-life, data on the WEEE treatment in the European Union in 2018 from the Eurostat database has been used to calculate the end-of-life scenario for European scope; while for the rest of the world PSR-default scenario has been used: 50% incineration without energy recovery and 50% landfilling.

Destination	Percentage of sales (%)	End-of-life scenario *		
		Recycling	Incineration	Landfilling
Europe	98.35 %	83.90 %	4.60 %	11.50 %
Rest of the world	1.65 %	00.00 %	50 %	50 %

Environmental impacts

The environmental impacts of the reference product have been evaluated for the five stages described above: manufacturing, distribution, installation, use and end-of-life stages. Additionally, each one of these stages have been divided when required into several modules.



The environmental impact assessment has been carried out with Simapro 9.6.0.1 tool and the background databases have been retrieved from Ecoinvent 3.9 libraries.

Results of mandatory indicators per Functional Unit of the reference product:

Impact category	Unit	Total	Manufacturing stage (modules A1-A3)		Distribution stage (module A4)		Installation stage (module A5)		Module B6	Use stage (modules B1-B7)		End-of-life stage (modules C1-C4)		Benefits (module D)
Climate change - Total	kg CO ₂ eq	1.30E-01	1.18E-01	90.76%	2.65E-03	2.03%	3.39E-03	2.60%	0.00E+00	0.00E+00	0.00%	6.01E-03	4.61%	-4.96E-02
Climate change – Fossil	kg CO ₂ eq	1.27E-01	1.19E-01	93.15%	2.64E-03	2.07%	8.86E-05	0.07%	0.00E+00	0.00E+00	0.00%	6.00E-03	4.71%	-4.94E-02
Climate change – Biogenic	kg CO ₂ eq	2.27E-03	-1.04E-03	-23.96%	8.38E-07	0.02%	3.31E-03	75.89%	0.00E+00	0.00E+00	0.00%	5.67E-06	0.13%	-1.85E-04
Climate change - Luluc	kg CO ₂ eq	5.93E-04	5.88E-04	99.12%	1.29E-06	0.22%	3.14E-08	0.01%	0.00E+00	0.00E+00	0.00%	3.89E-06	0.66%	-6.01E-05
Ozone depletion (OD)	kg CFC-11 eq	6.18E-09	6.05E-09	97.83%	5.71E-11	0.92%	2.44E-12	0.04%	0.00E+00	0.00E+00	0.00%	7.46E-11	1.21%	-4.41E-09
Acidification of soil and water (A)	mol H ⁺ eq	5.75E-04	5.50E-04	95.56%	8.79E-06	1.53%	4.40E-07	0.08%	0.00E+00	0.00E+00	0.00%	1.63E-05	2.84%	-2.17E-04
Freshwater eutrophication	kg P eq	4.71E-06	4.60E-06	97.58%	2.12E-08	0.45%	8.40E-10	0.02%	0.00E+00	0.00E+00	0.00%	9.17E-08	1.95%	-1.75E-06
Marine aquatic eutrophication	kg N eq	1.53E-04	1.45E-04	94.91%	2.97E-06	1.94%	1.72E-07	0.11%	0.00E+00	0.00E+00	0.00%	4.65E-06	3.03%	-4.00E-05
Terrestrial eutrophication	mol N eq	1.37E-03	1.29E-03	93.95%	3.18E-05	2.32%	1.92E-06	0.14%	0.00E+00	0.00E+00	0.00%	4.92E-05	3.59%	-4.19E-04
Photochemical ozone creation (POCP)	kg NMVOC eq	5.49E-04	5.16E-04	94.06%	1.30E-05	2.37%	7.51E-07	0.14%	0.00E+00	0.00E+00	0.00%	1.88E-05	3.43%	-1.96E-04
Depletion of abiotic resources – elements	kg Sb eq	1.15E-06	1.12E-06	97.18%	8.47E-09	0.73%	4.21E-10	0.04%	0.00E+00	0.00E+00	0.00%	2.36E-08	2.05%	-3.84E-07
Depletion of abiotic resources – Fossil fuels	MJ	2.79E+00	2.69E+00	96.37%	3.75E-02	1.34%	1.16E-03	0.04%	0.00E+00	0.00E+00	0.00%	6.28E-02	2.25%	-1.06E+00
Water use	m ³ eq. depriv.	7.56E-02	7.49E-02	99.05%	1.53E-04	0.20%	6.76E-06	0.01%	0.00E+00	0.00E+00	0.00%	5.60E-04	0.74%	-2.69E-02

Results of inventory flows indicators & indicators describing the use of secondary materials for the reference product:

Impact category	Unit	Total	Manufacturing stage (modules A1-A3)	Distribution stage (module A4)	Installation stage (module A5)	Module B6	Use stage (modules B1-B7)	End-of-life stage (modules C1-C4)	Benefits (module D)
PERE	MJ	7.23E-01	7.18E-01	5.78E-04	8.76E-05	0.00E+00	0.00E+00	4.30E-03	-5.58E-02
PERM	MJ	3.48E-02	3.48E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PERT	MJ	7.57E-01	7.53E-01	5.78E-04	8.76E-05	0.00E+00	0.00E+00	4.30E-03	-5.58E-02
PENRE	MJ	2.46E+00	2.35E+00	3.75E-02	1.16E-03	0.00E+00	0.00E+00	6.28E-02	-1.06E+00
PENRM	MJ	3.39E-01	3.39E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PENRT	MJ	2.79E+00	2.69E+00	3.75E-02	1.16E-03	0.00E+00	0.00E+00	6.28E-02	-1.06E+00
SM	kg	0.00E+00	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	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	0.00E+00
FW	m ³	1.74E-03	1.71E-03	5.33E-06	5.18E-07	0.00E+00	0.00E+00	2.24E-05	-7.20E-04

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 re-sources; SM = Use of secondary material; RSF = Use of renewable secondary fuels; NRSF = Use of non-renewable secondary fuels; FW: Freshwater use

Results of waste category indicators and output flow indicators for the reference product:

Impact category	Unit	Total	Manufacturing stage (modules A1-A3)	Distribution stage (module A4)	Installation stage (module A5)	Module B6	Use stage (modules B1-B7)	End-of-life stage (modules C1-C4)	Benefits (module D)
Hazardous waste disposed	kg	6.82E-06	6.30E-06	2.38E-07	6.09E-09	0.00E+00	0.00E+00	2.70E-07	-1.58E-06
Non-hazardous waste disposed	kg	2.31E-02	1.77E-02	1.83E-03	1.66E-04	0.00E+00	0.00E+00	3.36E-03	-4.62E-03
Radioactive waste disposed	kg	8.50E-06	8.43E-06	1.21E-08	9.67E-10	0.00E+00	0.00E+00	6.61E-08	-1.14E-06
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	0.00E+00
Material for recycling	kg	1.42E-02	3.50E-03	0.00E+00	1.23E-03	0.00E+00	0.00E+00	9.47E-03	0.00E+00
Materials for energy recovery	kg	8.97E-04	1.48E-04	0.00E+00	1.35E-04	0.00E+00	0.00E+00	6.14E-04	0.00E+00
Exported energy, electricity	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Exported energy, thermal	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Results of biogenic carbon for the reference product:

Indicator	Unit	Quantity
Biogenic carbon content of the product	Kg of C	0.00E+00
Biogenic carbon content of the packaging	kg of C	9.02E-04

Extrapolation rules

Extrapolations factors have been calculated to extrapolate the results of the reference product for the rest of the products of the homogeneous environmental family of voice and data plates for Simon K45, Simon 500 Cima and Simon Cima ranges. These extrapolation factors are based on the main environmental aspects for each life cycle stage, since all the products of the family have the same manufacturing method and materials:

- Manufacturing, distribution and benefits stages: the total weight of each product (sum of the product itself and the packaging).
- Installation stage: weight of the packaging components of each product.
- Use stage: energy consumption due to the electrical losses of each product during the reference lifetime.
- End-of-life stage: weight of each product without the packaging components.

Extrapolation coefficients:

Range	SKU	Manufacturing stage (A1-A3)	Distribution stage (A4)	Installation stage (A5)	Use stage (B1-B7)	End-of-life stage (C1-C4)	Benefits (D)
400	40000089-030	1.36E+00	1.36E+00	1.36E+00	1.00E+00	1.36E+00	1.36E+00
400	40000089-038	1.36E+00	1.36E+00	1.36E+00	1.00E+00	1.36E+00	1.36E+00
400	40000189-030	1.18E+01	1.18E+01	1.18E+01	1.00E+00	1.18E+01	1.18E+01
400	40000189-038	1.18E+01	1.18E+01	1.18E+01	1.00E+00	1.18E+01	1.18E+01
400	40011189-030	1.35E+01	1.35E+01	1.35E+01	1.00E+00	1.35E+01	1.35E+01
400	40011189-038	1.35E+01	1.35E+01	1.35E+01	1.00E+00	1.35E+01	1.35E+01
400	40013089-030	1.36E+01	1.36E+01	1.36E+01	1.00E+00	1.36E+01	1.36E+01
400	40013089-038	1.36E+01	1.36E+01	1.36E+01	1.00E+00	1.36E+01	1.36E+01
400	40015089-030	1.36E+01	1.36E+01	1.36E+01	1.00E+00	1.36E+01	1.36E+01
400	40015089-038	1.36E+01	1.36E+01	1.36E+01	1.00E+00	1.36E+01	1.36E+01
400	40015189-030	1.18E+01	1.18E+01	1.18E+01	1.00E+00	1.18E+01	1.18E+01
400	40015189-038	1.18E+01	1.18E+01	1.18E+01	1.00E+00	1.18E+01	1.18E+01
400	40016089-030	1.36E+01	1.36E+01	1.36E+01	1.00E+00	1.36E+01	1.36E+01
400	40016089-038	1.36E+01	1.36E+01	1.36E+01	1.00E+00	1.36E+01	1.36E+01
400	40019089-030	1.36E+01	1.36E+01	1.36E+01	1.00E+00	1.36E+01	1.36E+01
400	40019089-038	1.36E+01	1.36E+01	1.36E+01	1.00E+00	1.36E+01	1.36E+01
400	40019189-030	1.18E+01	1.18E+01	1.18E+01	1.00E+00	1.18E+01	1.18E+01
400	40019189-038	1.18E+01	1.18E+01	1.18E+01	1.00E+00	1.18E+01	1.18E+01
500 Cima	50000081-030	1.18E+00	1.18E+00	1.18E+00	1.00E+00	1.18E+00	1.18E+00
500 Cima	50000081-033	1.27E+00	1.27E+00	1.27E+00	1.00E+00	1.27E+00	1.27E+00
500 Cima	50000081-038	1.27E+00	1.27E+00	1.27E+00	1.00E+00	1.27E+00	1.27E+00
500 Cima	50000085-030	1.27E+00	1.27E+00	1.27E+00	1.00E+00	1.27E+00	1.27E+00
500 Cima	50000085-033	1.27E+00	1.27E+00	1.27E+00	1.00E+00	1.27E+00	1.27E+00
500 Cima	50000085-038	1.27E+00	1.27E+00	1.27E+00	1.00E+00	1.27E+00	1.27E+00
500 Cima	50000086-030	1.27E+00	1.27E+00	1.27E+00	1.00E+00	1.27E+00	1.27E+00
500 Cima	50000086-033	2.64E+00	2.64E+00	2.64E+00	1.00E+00	2.64E+00	2.64E+00
500 Cima	50000086-038	2.64E+00	2.64E+00	2.64E+00	1.00E+00	2.64E+00	2.64E+00
500 Cima	50000089-030	1.64E+00	1.64E+00	1.64E+00	1.00E+00	1.64E+00	1.64E+00

Range	SKU	Manufacturing stage (A1-A3)	Distribution stage (A4)	Installation stage (A5)	Use stage (B1-B7)	End-of-life stage (C1-C4)	Benefits (D)
500 Cima	50000089-033	1.45E+00	1.45E+00	1.45E+00	1.00E+00	1.45E+00	1.45E+00
500 Cima	50000089-038	1.45E+00	1.45E+00	1.45E+00	1.00E+00	1.45E+00	1.45E+00
500 Cima	50000181-030	1.18E+00	1.18E+00	1.18E+00	1.00E+00	1.18E+00	1.18E+00
500 Cima	50000181-033	1.18E+00	1.18E+00	1.18E+00	1.00E+00	1.18E+00	1.18E+00
500 Cima	50000181-038	1.18E+00	1.18E+00	1.18E+00	1.00E+00	1.18E+00	1.18E+00
500 Cima	50000185-030	1.27E+00	1.27E+00	1.27E+00	1.00E+00	1.27E+00	1.27E+00
500 Cima	50000185-033	1.27E+00	1.27E+00	1.27E+00	1.00E+00	1.27E+00	1.27E+00
500 Cima	50000185-038	1.27E+00	1.27E+00	1.27E+00	1.00E+00	1.27E+00	1.27E+00
500 Cima	50000186-030	1.09E+00	1.09E+00	1.09E+00	1.00E+00	1.09E+00	1.09E+00
500 Cima	50000186-033	1.09E+00	1.09E+00	1.09E+00	1.00E+00	1.09E+00	1.09E+00
500 Cima	50000186-038	1.09E+00	1.09E+00	1.09E+00	1.00E+00	1.09E+00	1.09E+00
500 Cima	50000189-030	1.45E+00	1.45E+00	1.45E+00	1.00E+00	1.45E+00	1.45E+00
500 Cima	50000189-033	1.45E+00	1.45E+00	1.45E+00	1.00E+00	1.45E+00	1.45E+00
500 Cima	50000189-038	1.45E+00	1.45E+00	1.45E+00	1.00E+00	1.45E+00	1.45E+00
500 Cima	50011185-030	1.27E+00	1.27E+00	1.27E+00	1.00E+00	1.27E+00	1.27E+00
500 Cima	50011185-038	1.27E+00	1.27E+00	1.27E+00	1.00E+00	1.27E+00	1.27E+00
500 Cima	50011189-030	1.36E+00	1.36E+00	1.36E+00	1.00E+00	1.36E+00	1.36E+00
500 Cima	50011189-038	1.36E+00	1.36E+00	1.36E+00	1.00E+00	1.36E+00	1.36E+00
500 Cima	50013085-030	1.36E+00	1.36E+00	1.36E+00	1.00E+00	1.36E+00	1.36E+00
500 Cima	50013085-033	1.36E+00	1.36E+00	1.36E+00	1.00E+00	1.36E+00	1.36E+00
500 Cima	50013085-038	1.36E+00	1.36E+00	1.36E+00	1.00E+00	1.36E+00	1.36E+00
500 Cima	50013089-030	1.55E+00	1.55E+00	1.55E+00	1.00E+00	1.55E+00	1.55E+00
500 Cima	50013089-033	1.55E+00	1.55E+00	1.55E+00	1.00E+00	1.55E+00	1.55E+00
500 Cima	50013089-038	1.55E+00	1.55E+00	1.55E+00	1.00E+00	1.55E+00	1.55E+00
500 Cima	50015085-030	1.36E+00	1.36E+00	1.36E+00	1.00E+00	1.36E+00	1.36E+00
500 Cima	50015085-038	1.36E+00	1.36E+00	1.36E+00	1.00E+00	1.36E+00	1.36E+00
500 Cima	50015089-030	1.69E+01	1.69E+01	1.69E+01	1.00E+00	1.69E+01	1.69E+01
500 Cima	50015089-038	1.69E+01	1.69E+01	1.69E+01	1.00E+00	1.69E+01	1.69E+01
500 Cima	50015185-030	2.36E+00	2.36E+00	2.36E+00	1.00E+00	2.36E+00	2.36E+00
500 Cima	50015185-038	2.36E+00	2.36E+00	2.36E+00	1.00E+00	2.36E+00	2.36E+00
500 Cima	50015189-030	2.73E+00	2.73E+00	2.73E+00	1.00E+00	2.73E+00	2.73E+00
500 Cima	50015189-038	2.73E+00	2.73E+00	2.73E+00	1.00E+00	2.73E+00	2.73E+00
500 Cima	50016085-030	1.55E+00	1.55E+00	1.55E+00	1.00E+00	1.55E+00	1.55E+00
500 Cima	50016085-038	1.55E+00	1.55E+00	1.55E+00	1.00E+00	1.55E+00	1.55E+00
500 Cima	50016089-030	3.09E+00	3.09E+00	3.09E+00	1.00E+00	3.09E+00	3.09E+00
500 Cima	50016089-038	3.09E+00	3.09E+00	3.09E+00	1.00E+00	3.09E+00	3.09E+00
500 Cima	50017085-030	1.36E+00	1.36E+00	1.36E+00	1.00E+00	1.36E+00	1.36E+00
500 Cima	50017085-033	1.36E+00	1.36E+00	1.36E+00	1.00E+00	1.36E+00	1.36E+00
500 Cima	50017085-038	1.27E+00	1.27E+00	1.27E+00	1.00E+00	1.27E+00	1.27E+00
500 Cima	50017089-030	1.55E+00	1.55E+00	1.55E+00	1.00E+00	1.55E+00	1.55E+00
500 Cima	50017089-033	1.55E+00	1.55E+00	1.55E+00	1.00E+00	1.55E+00	1.55E+00
500 Cima	50017089-038	1.55E+00	1.55E+00	1.55E+00	1.00E+00	1.55E+00	1.55E+00
500 Cima	50018085-030	2.55E+00	2.55E+00	2.55E+00	1.00E+00	2.55E+00	2.55E+00
500 Cima	50018085-033	2.55E+00	2.55E+00	2.55E+00	1.00E+00	2.55E+00	2.55E+00

Range	SKU	Manufacturing stage (A1-A3)	Distribution stage (A4)	Installation stage (A5)	Use stage (B1-B7)	End-of-life stage (C1-C4)	Benefits (D)
500 Cima	50018085-038	2.55E+00	2.55E+00	2.55E+00	1.00E+00	2.55E+00	2.55E+00
500 Cima	50018089-030	3.00E+00	3.00E+00	3.00E+00	1.00E+00	3.00E+00	3.00E+00
500 Cima	50018089-033	3.00E+00	3.00E+00	3.00E+00	1.00E+00	3.00E+00	3.00E+00
500 Cima	50018089-038	3.00E+00	3.00E+00	3.00E+00	1.00E+00	3.00E+00	3.00E+00
500 Cima	50018185-030	2.73E+00	2.73E+00	2.73E+00	1.00E+00	2.73E+00	2.73E+00
500 Cima	50018185-033	2.73E+00	2.73E+00	2.73E+00	1.00E+00	2.73E+00	2.73E+00
500 Cima	50018185-038	2.27E+00	2.27E+00	2.27E+00	1.00E+00	2.27E+00	2.27E+00
500 Cima	50018189-030	2.55E+00	2.55E+00	2.55E+00	1.00E+00	2.55E+00	2.55E+00
500 Cima	50018189-033	2.55E+00	2.55E+00	2.55E+00	1.00E+00	2.55E+00	2.55E+00
500 Cima	50018189-038	2.55E+00	2.55E+00	2.55E+00	1.00E+00	2.55E+00	2.55E+00
500 Cima	50019085-030	1.36E+00	1.36E+00	1.36E+00	1.00E+00	1.36E+00	1.36E+00
500 Cima	50019085-038	1.36E+00	1.36E+00	1.36E+00	1.00E+00	1.36E+00	1.36E+00
500 Cima	50019089-030	2.82E+00	2.82E+00	2.82E+00	1.00E+00	2.82E+00	2.82E+00
500 Cima	50019089-038	2.82E+00	2.82E+00	2.82E+00	1.00E+00	2.82E+00	2.82E+00
500 Cima	50019185-030	2.18E+00	2.18E+00	2.18E+00	1.00E+00	2.18E+00	2.18E+00
500 Cima	50019185-038	2.18E+00	2.18E+00	2.18E+00	1.00E+00	2.18E+00	2.18E+00
500 Cima	50019189-030	2.82E+00	2.82E+00	2.82E+00	1.00E+00	2.82E+00	2.82E+00
500 Cima	50019189-038	2.82E+00	2.82E+00	2.82E+00	1.00E+00	2.82E+00	2.82E+00
500 Cima	50020185-030	1.36E+00	1.36E+00	1.36E+00	1.00E+00	1.36E+00	1.36E+00
500 Cima	50020185-033	1.36E+00	1.36E+00	1.36E+00	1.00E+00	1.36E+00	1.36E+00
500 Cima	50020185-038	1.36E+00	1.36E+00	1.36E+00	1.00E+00	1.36E+00	1.36E+00
500 Cima	50021186-030	2.09E+00	2.09E+00	2.09E+00	1.00E+00	2.09E+00	2.09E+00
K45	K045/14	1.09E+00	1.09E+00	1.09E+00	1.00E+00	1.09E+00	1.09E+00
K45	K045/9	1.09E+00	1.09E+00	1.09E+00	1.00E+00	1.09E+00	1.09E+00
K45	K054/14	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00
K45	K054/9	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00
K45	K069/14	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00
K45	K069/9	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00
K45	K075/14	1.09E+00	1.09E+00	1.09E+00	1.00E+00	1.09E+00	1.09E+00
K45	K075/9	1.09E+00	1.09E+00	1.09E+00	1.00E+00	1.09E+00	1.09E+00
K45	K076/14	1.09E+00	1.09E+00	1.09E+00	1.00E+00	1.09E+00	1.09E+00
K45	K076/9	1.09E+00	1.09E+00	1.09E+00	1.00E+00	1.09E+00	1.09E+00
K45	K080/14	1.09E+00	1.09E+00	1.09E+00	1.00E+00	1.09E+00	1.09E+00
K45	K080/9	1.09E+00	1.09E+00	1.09E+00	1.00E+00	1.09E+00	1.09E+00
K45	K085/14	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00
K45	K085/9	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00
K45	K087/14	1.09E+00	1.09E+00	1.09E+00	1.00E+00	1.09E+00	1.09E+00
K45	K087/9	1.09E+00	1.09E+00	1.09E+00	1.00E+00	1.09E+00	1.09E+00
K45	K281/14	4.55E-01	4.55E-01	4.55E-01	1.00E+00	4.55E-01	4.55E-01
K45	K281/9	4.55E-01	4.55E-01	4.55E-01	1.00E+00	4.55E-01	4.55E-01
K45	K65/14	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00
K45	K65/9	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00
K45	K68/14	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00
K45	K68/9	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00

Range	SKU	Manufacturing stage (A1-A3)	Distribution stage (A4)	Installation stage (A5)	Use stage (B1-B7)	End-of-life stage (C1-C4)	Benefits (D)
K45	K69/14	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00
K45	K69/9	1.09E+00	1.09E+00	1.09E+00	1.00E+00	1.09E+00	1.09E+00
K45	K74/9	9.09E-01	9.09E-01	9.09E-01	1.00E+00	9.09E-01	9.09E-01
K45	K75/14	1.18E+00	1.18E+00	1.18E+00	1.00E+00	1.18E+00	1.18E+00
K45	K75/9	1.18E+00	1.18E+00	1.18E+00	1.00E+00	1.18E+00	1.18E+00
K45	K76/14	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00
K45	K76/8	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00
K45	K76/9	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00
K45	K80/14	1.09E+00	1.09E+00	1.09E+00	1.00E+00	1.09E+00	1.09E+00
K45	K80/8	1.09E+00	1.09E+00	1.09E+00	1.00E+00	1.09E+00	1.09E+00
K45	K80/9	1.09E+00	1.09E+00	1.09E+00	1.00E+00	1.09E+00	1.09E+00
K45	K82/14	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00
K45	K82/9	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00
K45	K85/14	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00
K45	K85/9	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00
K45	K87/14	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00
K45	K87/9	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00
K45	KA045/14	6.36E-01	6.36E-01	6.36E-01	1.00E+00	6.36E-01	6.36E-01
K45	KA045/9	6.36E-01	6.36E-01	6.36E-01	1.00E+00	6.36E-01	6.36E-01
K45	KA65/14	7.27E-01	7.27E-01	7.27E-01	1.00E+00	7.27E-01	7.27E-01
K45	KA65/9	7.27E-01	7.27E-01	7.27E-01	1.00E+00	7.27E-01	7.27E-01
K45	KA68/14	6.36E-01	6.36E-01	6.36E-01	1.00E+00	6.36E-01	6.36E-01
K45	KA68/9	6.36E-01	6.36E-01	6.36E-01	1.00E+00	6.36E-01	6.36E-01
K45	KA69/14	6.36E-01	6.36E-01	6.36E-01	1.00E+00	6.36E-01	6.36E-01
K45	KA69/9	6.36E-01	6.36E-01	6.36E-01	1.00E+00	6.36E-01	6.36E-01
K45	KA75/14	7.27E-01	7.27E-01	7.27E-01	1.00E+00	7.27E-01	7.27E-01
K45	KA75/9	7.27E-01	7.27E-01	7.27E-01	1.00E+00	7.27E-01	7.27E-01
K45	KA76/14	7.27E-01	7.27E-01	7.27E-01	1.00E+00	7.27E-01	7.27E-01
K45	KA76/8	7.27E-01	7.27E-01	7.27E-01	1.00E+00	7.27E-01	7.27E-01
K45	KA76/9	6.36E-01	6.36E-01	6.36E-01	1.00E+00	6.36E-01	6.36E-01
K45	KA85/14	6.36E-01	6.36E-01	6.36E-01	1.00E+00	6.36E-01	6.36E-01
K45	KA85/9	6.36E-01	6.36E-01	6.36E-01	1.00E+00	6.36E-01	6.36E-01
K45	KB045/14	1.18E+00	1.18E+00	1.18E+00	1.00E+00	1.18E+00	1.18E+00
K45	KB045/9	1.18E+00	1.18E+00	1.18E+00	1.00E+00	1.18E+00	1.18E+00
K45	KB069/14	1.09E+00	1.09E+00	1.09E+00	1.00E+00	1.09E+00	1.09E+00
K45	KB069/9	1.09E+00	1.09E+00	1.09E+00	1.00E+00	1.09E+00	1.09E+00
K45	KB075/14	1.18E+00	1.18E+00	1.18E+00	1.00E+00	1.18E+00	1.18E+00
K45	KB075/9	1.18E+00	1.18E+00	1.18E+00	1.00E+00	1.18E+00	1.18E+00
K45	KB076/14	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00
K45	KB076/9	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00
K45	KB080/14	1.09E+00	1.09E+00	1.09E+00	1.00E+00	1.09E+00	1.09E+00
K45	KB080/9	1.09E+00	1.09E+00	1.09E+00	1.00E+00	1.09E+00	1.09E+00
K45	KB085/14	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00
K45	KB085/9	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00

Range	SKU	Manufacturing stage (A1-A3)	Distribution stage (A4)	Installation stage (A5)	Use stage (B1-B7)	End-of-life stage (C1-C4)	Benefits (D)
K45	KB65/14	1.36E+00	1.36E+00	1.36E+00	1.00E+00	1.36E+00	1.36E+00
K45	KB65/9	1.36E+00	1.36E+00	1.36E+00	1.00E+00	1.36E+00	1.36E+00
K45	KB68/14	1.27E+00	1.27E+00	1.27E+00	1.00E+00	1.27E+00	1.27E+00
K45	KB68/9	1.27E+00	1.27E+00	1.27E+00	1.00E+00	1.27E+00	1.27E+00
K45	KB69/14	1.27E+00	1.27E+00	1.27E+00	1.00E+00	1.27E+00	1.27E+00
K45	KB69/9	1.27E+00	1.27E+00	1.27E+00	1.00E+00	1.27E+00	1.27E+00
K45	KB72/9	6.36E-01	6.36E-01	6.36E-01	1.00E+00	6.36E-01	6.36E-01
K45	KB74/9	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00
K45	KB75/14	1.36E+00	1.36E+00	1.36E+00	1.00E+00	1.36E+00	1.36E+00
K45	KB75/9	1.36E+00	1.36E+00	1.36E+00	1.00E+00	1.36E+00	1.36E+00
K45	KB76/14	1.27E+00	1.27E+00	1.27E+00	1.00E+00	1.27E+00	1.27E+00
K45	KB76/8	1.27E+00	1.27E+00	1.27E+00	1.00E+00	1.27E+00	1.27E+00
K45	KB76/9	1.27E+00	1.27E+00	1.27E+00	1.00E+00	1.27E+00	1.27E+00
K45	KB80/14	1.09E+00	1.09E+00	1.09E+00	1.00E+00	1.09E+00	1.09E+00
K45	KB80/8	1.09E+00	1.09E+00	1.09E+00	1.00E+00	1.09E+00	1.09E+00
K45	KB80/9	1.09E+00	1.09E+00	1.09E+00	1.00E+00	1.09E+00	1.09E+00
K45	KB85/14	1.09E+00	1.09E+00	1.09E+00	1.00E+00	1.09E+00	1.09E+00
K45	KB85/9	1.09E+00	1.09E+00	1.09E+00	1.00E+00	1.09E+00	1.09E+00
K45	KB87/14	1.27E+00	1.27E+00	1.27E+00	1.00E+00	1.27E+00	1.27E+00
K45	KB87/9	1.27E+00	1.27E+00	1.27E+00	1.00E+00	1.27E+00	1.27E+00
K45	K96UF/9	1.27E+00	1.27E+00	1.27E+00	1.00E+00	1.27E+00	1.27E+00
K45	K96UF/14	1.27E+00	1.27E+00	1.27E+00	1.00E+00	1.27E+00	1.27E+00
K45	K96FF/9	1.27E+00	1.27E+00	1.27E+00	1.00E+00	1.27E+00	1.27E+00
K45	K96FF/14	1.27E+00	1.27E+00	1.27E+00	1.00E+00	1.27E+00	1.27E+00
K45	K96AUF/9	1.27E+00	1.27E+00	1.27E+00	1.00E+00	1.27E+00	1.27E+00
K45	K96AUF/14	1.27E+00	1.27E+00	1.27E+00	1.00E+00	1.27E+00	1.27E+00
K45	K96AFF/9	1.27E+00	1.27E+00	1.27E+00	1.00E+00	1.27E+00	1.27E+00
K45	K96AFF/14	1.27E+00	1.27E+00	1.27E+00	1.00E+00	1.27E+00	1.27E+00
K45	MD45	1.82E-01	1.82E-01	1.82E-01	1.00E+00	1.82E-01	1.82E-01
K45	MD54	1.82E-01	1.82E-01	1.82E-01	1.00E+00	1.82E-01	1.82E-01
K45	MD62	9.09E-02	9.09E-02	9.09E-02	1.00E+00	9.09E-02	9.09E-02
K45	MD63	1.82E-01	1.82E-01	1.82E-01	1.00E+00	1.82E-01	1.82E-01
K45	MD64	1.82E-01	1.82E-01	1.82E-01	1.00E+00	1.82E-01	1.82E-01
K45	MD67	2.73E-01	2.73E-01	2.73E-01	1.00E+00	2.73E-01	2.73E-01
K45	MD68	1.82E-01	1.82E-01	1.82E-01	1.00E+00	1.82E-01	1.82E-01
K45	MD69	1.82E-01	1.82E-01	1.82E-01	1.00E+00	1.82E-01	1.82E-01
K45	MD71	9.09E-02	9.09E-02	9.09E-02	1.00E+00	9.09E-02	9.09E-02
K45	MD79	1.82E-01	1.82E-01	1.82E-01	1.00E+00	1.82E-01	1.82E-01
K45	MD85	2.73E-01	2.73E-01	2.73E-01	1.00E+00	2.73E-01	2.73E-01
Cima	S045B/14	2.45E+00	2.45E+00	2.45E+00	1.00E+00	2.45E+00	2.45E+00
Cima	S045B/9	2.45E+00	2.45E+00	2.45E+00	1.00E+00	2.45E+00	2.45E+00
Cima	S045C/14	2.91E+00	2.91E+00	2.91E+00	1.00E+00	2.91E+00	2.91E+00
Cima	S045C/9	2.91E+00	2.91E+00	2.91E+00	1.00E+00	2.91E+00	2.91E+00
Cima	S054B/14	1.82E+00	1.82E+00	1.82E+00	1.00E+00	1.82E+00	1.82E+00

Range	SKU	Manufacturing stage (A1-A3)	Distribution stage (A4)	Installation stage (A5)	Use stage (B1-B7)	End-of-life stage (C1-C4)	Benefits (D)
Cima	S069C/9	2.36E+00	2.36E+00	2.36E+00	1.00E+00	2.36E+00	2.36E+00
Cima	S076/14	2.09E+00	2.09E+00	2.09E+00	1.00E+00	2.09E+00	2.09E+00
Cima	S076/9	2.09E+00	2.09E+00	2.09E+00	1.00E+00	2.09E+00	2.09E+00
Cima	S076B/14	2.09E+00	2.09E+00	2.09E+00	1.00E+00	2.09E+00	2.09E+00
Cima	S076B/9	2.09E+00	2.09E+00	2.09E+00	1.00E+00	2.09E+00	2.09E+00
Cima	S076C/14	2.09E+00	2.09E+00	2.09E+00	1.00E+00	2.09E+00	2.09E+00
Cima	S076C/9	2.09E+00	2.09E+00	2.09E+00	1.00E+00	2.09E+00	2.09E+00
Cima	S63B/9	2.45E+00	2.45E+00	2.45E+00	1.00E+00	2.45E+00	2.45E+00
Cima	S68B/14	2.55E+00	2.55E+00	2.55E+00	1.00E+00	2.55E+00	2.55E+00
Cima	S68C/14	3.00E+00	3.00E+00	3.00E+00	1.00E+00	3.00E+00	3.00E+00
Cima	S68C/9	3.00E+00	3.00E+00	3.00E+00	1.00E+00	3.00E+00	3.00E+00
Cima	S69B/14	2.36E+00	2.36E+00	2.36E+00	1.00E+00	2.36E+00	2.36E+00
Cima	S69B/9	2.36E+00	2.36E+00	2.36E+00	1.00E+00	2.36E+00	2.36E+00
Cima	S69C/14	2.82E+00	2.82E+00	2.82E+00	1.00E+00	2.82E+00	2.82E+00
Cima	S69C/9	2.82E+00	2.82E+00	2.82E+00	1.00E+00	2.82E+00	2.82E+00
Cima	S75B/14	2.64E+00	2.64E+00	2.64E+00	1.00E+00	2.64E+00	2.64E+00
Cima	S75C/14	3.18E+00	3.18E+00	3.18E+00	1.00E+00	3.18E+00	3.18E+00
Cima	S75C/9	3.18E+00	3.18E+00	3.18E+00	1.00E+00	3.18E+00	3.18E+00
Cima	S76B/14	2.36E+00	2.36E+00	2.36E+00	1.00E+00	2.36E+00	2.36E+00
Cima	S76B/8	2.36E+00	2.36E+00	2.36E+00	1.00E+00	2.36E+00	2.36E+00
Cima	S76B/9	4.00E+00	4.00E+00	4.00E+00	1.00E+00	4.00E+00	4.00E+00
Cima	S76C/14	3.09E+00	3.09E+00	3.09E+00	1.00E+00	3.09E+00	3.09E+00
Cima	S76C/8	2.82E+00	2.82E+00	2.82E+00	1.00E+00	2.82E+00	2.82E+00
Cima	S76C/9	2.82E+00	2.82E+00	2.82E+00	1.00E+00	2.82E+00	2.82E+00
Cima	S80B/14	2.55E+00	2.55E+00	2.55E+00	1.00E+00	2.55E+00	2.55E+00
Cima	S80B/8	2.91E+00	2.91E+00	2.91E+00	1.00E+00	2.91E+00	2.91E+00
Cima	S80C/14	2.64E+00	2.64E+00	2.64E+00	1.00E+00	2.64E+00	2.64E+00
Cima	S80C/8	2.64E+00	2.64E+00	2.64E+00	1.00E+00	2.64E+00	2.64E+00
Cima	S80C/9	2.64E+00	2.64E+00	2.64E+00	1.00E+00	2.64E+00	2.64E+00
Cima	S85B/14	2.55E+00	2.55E+00	2.55E+00	1.00E+00	2.55E+00	2.55E+00
Cima	S85C/14	3.00E+00	3.00E+00	3.00E+00	1.00E+00	3.00E+00	3.00E+00
Cima	S85C/9	3.00E+00	3.00E+00	3.00E+00	1.00E+00	3.00E+00	3.00E+00