


CU-LT FIRE DAMPER FAMILY

Product Environmental Profile



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Independent verification of the declaration and data in accordance with ISO 14025: 2006	
Internal: <input type="checkbox"/>	External: <input checked="" type="checkbox"/>
The PCR review was carried out by a group of experts chaired by Julie Orgelet (DDemain).	
The PEPs comply with standards XP C08-100-1: 2016 and EN 50693:2019 or NF E38-500:2022. The components of this PEP cannot be compared with the components of another programme.	
This document complies with ISO 14025:2006 'Environmental labelling and declarations. Type III environmental claims'	
	



Name and address of the programme operator:	PEP Ecopassport program PEP Association 11-17 Rue de l'Amiral Hamelin 75016 Paris, France +33 1 45 05 71 56
Owner of this PEP and its LCA	Rf-Technologies Lange Ambachtstraat 40 9860 Oosterzele, Belgium www.rft.eu/en-eu
Author of this PEP and its LCA	Lenka Valachová
Contact: Lenka Valachová	epd@rft.eu info@rft.eu +32 9 362 31 71
Product	CU-LT fire damper family
Product category	Heating, ventilation and air conditioning equipment – fire damper
Product manufacturing site	Rf-Technologies Lange Ambachtstraat 40 9860 Oosterzele, Belgium +421 37 793 00 80
Publication date	18.03.2026
Validity period of this PEP	18.03.2026 - 18.03.2031
Reference year of the LCA study	2024

This is a translation

This document is a translation of the PEP Ecopassport® document, an EPD declaration based on the French INIES programme. This declaration will shortly be replaced by an EPD framework. Both EPD programs comply with the ISO 14025 and EN15804 + A2 standard.

1. Description of Rf-Technologies

As a family-run business, Rf-Technologies is one of Europe's leading manufacturers of specialised fire protection solutions, constantly innovating and investing in high-quality, certified products. With production sites in Belgium and Slovakia and a wide distribution network spanning over 15 countries, we contribute to fire safety in critical facilities such as hospitals, offices, and government buildings.

2. Product family

This PEP presents the environmental impact of the CU-LT fire damper family. The CU-LT fire damper family consists of fire dampers that can be manufactured in dimensions, ranging from 200x100 to 800x600 mm, with a minimum fire resistance of 120 minutes. These fire dampers are installed where ventilation ducts pass through the walls of fire-resistant compartments. Their role is to restore the fire resistance rating of the wall through which they pass and to prevent the spread of smoke.

3. Description of the reference product and its characteristics

The reference product covered by this PEP is the CU-LT-200x100, which is part of passive fire safety equipment. The CU-LT-200x100 is an optimised rectangular fire damper with a minimum fire resistance of 120 minutes, operated by a BOBI, motorised actuator.

Technical characteristics of the reference product	Product value	Unit
Minimum fire resistance	120	min
Dimension	200x100	mm
Length	300	mm
Mass with actuator, excluding packaging	4,95	kg
Mass of product packaging	0,29	kg

For further technical details, see the classification report: [CU-LT classification report Efectis](#)

The total mass of the product is 5,24 kg, comprising 4,95 kg of product and 0,29 kg of packaging. At a reference flow basis, the total mass of the product is 2,62 kg.

Material composition of the reference product:

Material composition of the reference product					
Metals		Polymers		Others	
Galvanised steel	64,2%	PC-ABS	7,2%	Ca-Si	4,5%
Non-ferrous metals	5,9%	PA 6.6	4,2%	Wood	2,3%
Stainless steel	3,0%	TPE	2,1%	Cardboard	1,5%
		PE-LD	1,4%	Graphite strip	1,2%
		PET	0,7%	PCB	0,8%
		SBR	0,7%		
		PP	0,3%		

4. Functional unit

The characterisation of the functional unit is as follows: 'To transfer air for ventilation and/or air filtration and/or smoke extraction from a building, for a connection section of 1 dm², over the typical product lifespan of 30 years'. The reference flow rate is defined as 1 unit of CU-LT-200x100 divided by 2.

5. Life cycle assessment methodology

To calculate the LCA results, the Sphera software, LCA for Experts, version 10.9.1.17 with the MLC 2025 database, was used. The impact is calculated for a reference period of 30 years.

The LCA study includes all modules with geographical representativeness:

World: modules A1, A2, A3

France: modules A4, A5, B1, B2, B3, B4, B5, B6, B7, C1, C2, C3, C4, D.

Modules declared in this PEP and their geographical application																	
Stage	'PRODUCT stage'			'CONSTRUCTION PROCESS stage'		'USE stage'							'END-OF-LIFE stage'				Benefits and costs beyond the system boundaries
Modules	Raw material procurement	Transport (to the manufacturer)	Manufacturing	Transport (to the construction site)	Construction/installation process	Use	Maintenance	Repair	Replacement	Renovation	Operational energy consumption	Operational water use	Deconstruction/demolition	Transport (to waste treatment)	Waste treatment	Waste disposal	Reuse, recovery, recycling potential
	A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Declared modules	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Z representative area/country	GLOBAL			FRANCE													

Manufacturing

The manufacturing stage takes into account the production of raw materials and their transport to the manufacturing site in Belgium, the electrical energy consumed during manufacturing, the production of packaging materials, and the management of production losses.

Energy dataset:

- BE: Residual grid mix, Sphera, <1kV
- BE: Electricity from photovoltaic, Sphera, 1kV - 60kV
- RER: Electricity grid mix, Sphera, <1kV

Distribution

Distribution from the manufacturer's final logistics hub to French customers via Euro V lorries, > 27t with a load factor of 85%. The distribution distance is 1300 km.

Installation

The installation module takes into account

- 2,7 kg of mortar and its transport to the installation site.
- The processing and disposal of packaging materials in accordance with a scenario prescribed by PSR-0008-ed3.0-EN-2023 10 19. Packaging materials are recycled, incinerated for energy recovery, and sent to landfill.

Use

The reference product is equipped with a motorised mechanism. The motorised mechanism operates on electricity. In France (FR: Sphera mixed electricity grid, <1kV), electricity is consumed during regular fire damper tests, at a frequency of one test per week. Electricity consumption depends on the frequency of testing. For less frequent testing, the B6 results are lower than those stated in this PEP. It is recommended to periodically test the movement of the damper blade.

End of life

Modelled in accordance with PEP-PCR-ed4-EN-2021 09 06. The materials of the reference product undergo:

Recycling	61,1%
Landfilling	18,5%
Incineration without energy recovery	11,6%
Incineration with energy recovery	8,8%

Module D

Takes into account the benefits of recycling and energy recovery. Total for:

Recycling	Galvanised steel	2,81 kg
	Non-ferrous metals	0,19 kg
	PC-ABS	0,08 kg
	Cardboard	0,07 kg
	PE	0,02 kg
	Metals PCB	0,01 kg
	Wooden pallet	0,01 kg
Incineration with energy recovery	PET	0,01 kg
	PA 6.6	0,15 kg
	PC-ABS	0,15 kg
	Rubber	0,07 kg
	Wooden pallet	0,04 kg
	PE	0,03 kg
	PET	0,02 kg

Result for the functional unit, cross-section 1 dm².

Results of the functional unit								
Indicator	Modules	LCA excluding D	A1-A3	A4	A5	B	C1-C4	D
	Unit	Total	Manu- facturing	Distribution	Installation	Use	End of life	Benefits and costs
Climate change – total	[kg CO ₂ eq.]	1,04E+01	9,04E+00	2,65E-01	2,82E-01	8,42E-04	8,59E-01	-3,05E+00
Climate change – fossil	[kg CO ₂ eq.]	1,01E+1	8,94E+00	2,68E-1	1,78E-1	8,29E-4	7,57E-1	-3,04E+00
Climate change – biogenic	[kg CO ₂ eq.]	2,93E-01	9,26E-02	-5,07E-03	1,04E-01	1,03E-05	1,02E-01	1,96E-03
Climate change, land use and land-use change land use	[kg CO ₂ eq.]	1,17E-02	9,01E-03	2,06E-03	4,03E-04	2,52E-06	2,59E-04	-2,17E-03
Ozone depletion	[kg CFC -11 eq.]	5,45E-09	5,45E-09	5,45E-09	4,11E-14	1,79E-13	4,27E-14	-4,80E-13
Acidification	[Mole of H+ equivalent]	3,72E-02	3,46E-02	1,46E-03	4,00E-04	2,25E-06	8,15E-04	-1,19E-02
Freshwater eutrophication,	[kg P eq.]	2,52E-05	1,95E-05	1,14E-06	4,53E-07	3,01E-09	4,10E-06	-2,20E-06
Marine eutrophication	[kg N eq.]	6,97E-03	5,67E-03	7,18E-04	1,71E-04	6,81E-07	4,07E-04	-1,80E-03
Terrestrial eutrophication	[Mole of N eq.]	7,46E-02	6,09E-02	7,70E-03	1,68E-03	7,10E-06	4,35E-03	-1,96E-02
Photochemical ozone formation, human health	[kg NMVOC eq.]	2,23E-02	1,95E-02	1,35E-03	3,89E-04	1,57E-06	1,01E-03	-6,04E-03
Resource use, minerals and metals	[kg Sb eq.]	5,28E-04	5,28E-04	1,80E-08	1,51E-07	3,73E-10	4,16E-09	-2,07E-04
Resource use, fossil fuels	[MJ]	1,39E+02	1,34E+02	3,41E+00	8,56E-01	8,60E-02	1,08E+00	-2,85E+01
Water use	[m ³ world equivalent]	6,97E-01	5,76E-01	1,04E-03	1,83E-02	3,30E-04	1,01E-01	-3,24E-01
Use of renewable primary energy (PERE)	[MJ]	2,47E+01	2,32E+01	2,20E-01	1,07E+00	2,52E-02	2,00E-01	-3,99E+00
Primary energy resources used as raw materials (PERM)	[MJ]	1,21E+00	2,15E+00	0,00E+00	-9,41E-01	0,00E+00	0,00E+00	0,00E+00
Total use of renewable primary energy resources (PERT)	[MJ]	2,59E+01	2,54E+01	2,20E-01	1,31E-01	2,52E-02	2,00E-01	-3,99E+00
Use of non-renewable primary energy (PENRE)	[MJ]	1,39E+02	1,22E+02	3,41E+00	1,89E+00	8,60E-02	1,19E+01	-2,85E+01
Non-renewable primary energy resources used as raw materials (PENRM)	[MJ]	2,69E-01	1,21E+01	0,00E+00	-1,03E+00	0,00E+00	-1,08E+01	0,00E+00
Total use of non-renewable primary energy resources (PENRT)	[MJ]	1,39E+02	1,34E+02	3,41E+00	8,56E-01	8,60E-02	1,08E+00	-2,85E+01
Use of secondary materials	[kg]	2,93E-01	2,93E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Use of renewable secondary fuels	[MJ]	5,41E-23	5,41E-23	0,00E+00	0,00E+00	0,00E+00	0,00E+00	-2,19E-23
Use of non-renewable secondary fuels	[MJ]	6,36E-22	6,36E-22	0,00E+00	0,00E+00	0,00E+00	0,00E+00	-2,57E-22
Freshwater use	[m ³]	4,30E-02	4,00E-02	1,44E-04	5,02E-04	3,70E-05	2,31E-03	-8,51E-03
Hazardous waste disposed	[kg]	1,41E-05	1,41E-05	1,38E-10	2,20E-10	4,60E-11	3,78E-10	-5,96E-07
Non-hazardous waste disposed	[kg]	9,74E-01	4,37E-01	5,32E-04	9,56E-02	2,76E-05	4,40E-01	5,95E-02
Radioactive waste disposed	[kg]	3,22E-03	3,12E-03	1,34E-05	2,40E-05	2,68E-05	3,67E-05	1,18E-04
Components for reuse	[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]	1,75E+00	1,99E-01	0,00E+00	5,21E-02	0,00E+00	1,50E+00	0,00E+00
Materials for energy recovery	[kg]	3,05E-01	7,92E-02	0,00E+00	3,89E-02	0,00E+00	1,87E-01	0,00E+00
Electrical energy exported	[MJ]	1,25E+00	2,45E-01	0,00E+00	1,20E-01	0,00E+00	8,88E-01	0,00E+00
Thermal energy exported	[MJ]	2,29E+00	4,84E-01	0,00E+00	2,15E-01	0,00E+00	1,59E+00	0,00E+00
Particulate matter	[Disease incidences]	6,72E-07	6,55E-07	8,68E-09	4,58E-09	1,95E-11	4,49E-09	-1,34E-07
Ionising radiation, human health	[kBq U235 eq.]	3,90E-01	3,70E-01	2,97E-03	3,98E-03	6,82E-03	6,21E-03	1,18E-02
Ecotoxicity (freshwater)	[CTUe]	5,54E+01	4,72E+01	6,35E+00	8,74E-01	4,99E-03	9,67E-01	-1,03E+01
Human toxicity, carcinogenic	[CTUh]	2,44E-08	2,43E-08	8,02E-11	2,05E-11	5,94E-13	2,00E-11	-3,94E-09
Human toxicity, non-carcinogenic	[CTUh]	7,75E-08	6,92E-08	5,85E-09	1,51E-09	6,13E-12	9,10E-10	-8,10E-09
Land use	[Pt]	8,61E+01	8,31E+01	2,32E+00	2,57E-01	1,07E-02	3,22E-01	-2,15E+00
Total primary energy consumption over the life cycle	[MJ]	1,65E+02	1,59E+02	3,63E+00	9,87E-01	1,11E-01	1,28E+00	-3,25E+01
Biogenic carbon content of the product	[kg 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 associated packaging	[kg C]	4,35E-01	4,35E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00

Result for the functional unit, cross-section 1 dm².

Results for the functional unit									
Indicator	Modules	Stage of use	B1	B2	B3	B4	B5	B6	B7
	Unit	Total	Operation	Maintenance	Repair	Replacement	Refurbishment	Energy consumption	Water consumption
Climate change - total	[kg CO ₂ eq.]	8,42E-04	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	8,42E-04	0,00E+00
Climate change – fossil	[kg CO ₂ eq.]	8,29E-04	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	8,29E-04	0,00E+00
Climate change – biogenic	[kg CO ₂ eq.]	1,03E-05	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,03E-05	0,00E+00
Climate change, land use and land-use change	[kg CO ₂ eq.]	2,52E-06	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,52E-06	0,00E+00
Ozone depletion	[kg CFC-11 eq.]	4,27E-14	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	4,27E-14	0,00E+00
Acidification	[Mole of H+ eq.]	2,25E-06	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,25E-06	0,00E+00
Freshwater eutrophication	[kg P eq.]	3,01E-09	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	3,01E-09	0,00E+00
Marine eutrophication	[kg N eq.]	6,81E-07	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	6,81E-07	0,00E+00
Terrestrial eutrophication	[Mole of N eq.]	7,10E-06	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	7,10E-06	0,00E+00
Photochemical ozone formation, human health	[kg NMVOC eq.]	1,57E-06	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,57E-06	0,00E+00
Resource use, minerals and metals	[kg Sb eq.]	3,73E-10	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	3,73E-10	0,00E+00
Use of resources, fossil	[MJ]	8,60E-02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	8,60E-02	0,00E+00
Water use	[m ³ equiv. world]	3,30E-04	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	3,30E-04	0,00E+00
Use of renewable primary energy (PERE)	[MJ]	2,52E-02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,52E-02	0,00E+00
Primary energy resources used as raw materials (PERM)	[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
Total use of renewable primary energy resources (PERT)	[MJ]	2,52E-02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,52E-02	0,00E+00
Use of non-renewable primary energy (PENRE)	[MJ]	8,60E-02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	8,60E-02	0,00E+00
Non-renewable primary energy resources used as raw materials (PENRM)	[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
Total use of non-renewable primary energy resources (PENRT)	[MJ]	8,60E-02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	8,60E-02	0,00E+00
Use of secondary materials	[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
Use of renewable secondary fuels	[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
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	0,00E+00	0,00E+00
Freshwater use	[m ³]	3,70E-05	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	3,70E-05	0,00E+00
Hazardous waste disposed	[kg]	4,60E-11	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	4,60E-11	0,00E+00
Non-hazardous waste disposed	[kg]	2,76E-05	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,76E-05	0,00E+00
Radioactive waste disposed	[kg]	2,68E-05	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,68E-05	0,00E+00
Components for reuse	[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
Materials for recycling	[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
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	0,00E+00
Electricity exported	[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
Heat exported	[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
Particulate matter	[Disease incidences]	1,95E-11	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,95E-11	0,00E+00
Ionising radiation, human health	[kBq U235 eq.]	6,82E-03	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	6,82E-03	0,00E+00
Ecotoxicity (freshwater)	[CTUe]	4,99E-03	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	4,99E-03	0,00E+00
Human toxicity, carcinogenic	[CTUh]	5,94E-13	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	5,94E-13	0,00E+00
Human toxicity, non-carcinogenic	[CTUh]	6,13E-12	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	6,13E-12	0,00E+00
Land use	[Pt]	1,07E-02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,07E-02	0,00E+00
Total primary energy use over the life cycle	[MJ]	1,11E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,11E-01	0,00E+00

Result for the reference product, cross-section 2 dm².

Results for the reference product								
Indicator	Modules	LCA excluding D	A1-A3	A4	A5	B	C1-C4	D
	Unit	Total	Manu- facturing	Distribution	Installation	Use	End of life	Benefits and costs
Climate change - total	[kg CO ₂ eq.]	2,09E+01	1,81E+01	5,30E-01	5,64E-01	1,68E-03	1,72E+00	-6,09E+00
Climate change – fossil	[kg CO ₂ eq.]	2,03E+01	1,79E+01	5,36E-01	3,56E-01	1,66E-03	1,51E+00	-6,09E+00
Climate change – biogenic	[kg CO ₂ eq.]	5,86E-01	1,85E-01	-1,01E-02	2,07E-01	2,06E-05	2,04E-01	3,92E-03
Climate change, land use and land-use change	[kg CO ₂ eq.]	2,35E-02	1,80E-02	4,11E-03	8,07E-04	5,05E-06	5,18E-04	-4,33E-03
Ozone depletion	[kg CFC-11 eq.]	1,09E-08	1,09E-08	8,22E-14	3,59E-13	8,54E-14	-9,59E-13	-4,41E-09
Acidification	[Mole of H+ eq.]	7,45E-02	6,91E-02	2,92E-03	8,01E-04	4,50E-06	1,63E-03	-2,39E-02
Freshwater eutrophication	[kg P eq.]	5,04E-05	3,90E-05	2,28E-06	9,06E-07	6,02E-09	8,21E-06	-4,41E-06
Marine eutrophication	[kg N eq.]	1,39E-02	1,13E-02	1,44E-03	3,42E-04	1,36E-06	8,15E-04	-3,59E-03
Terrestrial eutrophication	[Mole of N eq.]	1,49E-01	1,22E-01	1,54E-02	3,35E-03	1,42E-05	8,70E-03	-3,91E-02
Photochemical ozone formation, human health	[kg NMVOC eq.]	4,46E-02	3,91E-02	2, 70E-03	7,77E-04	3,15E-06	2,02E-03	-1,21E-02
Resource use, minerals and metals	[kg Sb eq.]	1,06E-03	1,06E-03	3,60E-08	3,02E-07	7,45E-10	8,32E-09	-4,13E-04
Resource use, fossil	[MJ]	2,79E+02	2,68E+02	6,81E+00	1,71E+00	1,72E-01	2,16E+00	-5,70E+01
Water use	[m ³ world equivalent]	1,39E+00	1,15E+00	2,08E-03	3,66E-02	6,60E-04	2,03E-01	-6,48E-01
Use of renewable primary energy (PERE)	[MJ]	4,94E+01	4,64E+01	4,40E-01	2,14E+00	5,04E-02	4,00E-01	-7,97E+00
Primary energy resources used as raw materials (PERM)	[MJ]	2,43E+00	4,31E+00	0,00E+00	-1,88E+00	0,00E+00	0,00E+00	0,00E+00
Total use of renewable primary energy resources (PERT)	[MJ]	5,19E+01	5,07E+01	4,40E-01	2,62E-01	5,04E-02	4,00E-01	-7,97E+00
Use of non-renewable primary energy (PENRE)	[MJ]	2,78E+02	2,44E+02	6,81E+00	3,78E+00	1,72E-01	2,38E+01	-5,70E+01
Non-renewable primary energy resources used as raw materials (PENRM)	[MJ]	5,39E-01	2,42E+01	0,00E+00	-2,07E+00	0,00E+00	-2,16E+01	0,00E+00
Total use of non-renewable primary energy resources (PENRT)	[MJ]	2,79E+02	2,68E+02	6,81E+00	1,71E+00	1,72E-01	2,16E+00	-5,70E+01
Use of secondary materials	[kg]	5,85E-01	5,85E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Use of renewable secondary fuels	[MJ]	1,08E-22	1,08E-22	0,00E+00	0,00E+00	0,00E+00	0,00E+00	-4,38E-23
Use of non-renewable secondary fuels	[MJ]	1,27E-21	1,27E-21	0,00E+00	0,00E+00	0,00E+00	0,00E+00	-5,15E-22
Freshwater use	[m ³]	8,61E-02	8,01E-02	2,88E-04	1,00E-03	7,40E-05	4,62E-03	-1,70E-02
Hazardous waste disposed	[kg]	2,81E-05	2,81E-05	2,76E-10	4,40E-10	9,19E-11	7,56E-10	-1,19E-06
Non-hazardous waste disposed	[kg]	1,95E+00	8,75E-01	1,06E-03	1,91E-01	5,52E-05	8,81E-01	1,19E-01
Radioactive waste disposed of	[kg]	6,44E-03	6,24E-03	2,68E-05	4,80E-05	5,37E-05	7,33E-05	2,37E-04
Components for reuse	[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]	3,50E+00	3,98E-01	0,00E+00	1,04E-01	0,00E+00	3,00E+00	0,00E+00
Materials for energy recovery	[kg]	6,10E-01	1,58E-01	0,00E+00	7,77E-02	0,00E+00	3,73E-01	0,00E+00
Electricity exported	[MJ]	2,51E+00	4,90E-01	0,00E+00	2,40E-01	0,00E+00	1,78E+00	0,00E+00
Thermal energy exported	[MJ]	4,58E+00	9,68E-01	0,00E+00	4,30E-01	0,00E+00	3,19E+00	0,00E+00
Particulate matter	[Disease incidences]	1,34E-06	1,31E-06	1,74E-08	9,16E-09	3,90E-11	8,98E-09	-2,69E-07
Ionising radiation, human health	[kBq U235 eq.]	7,80E-01	7,40E-01	5,93E-03	7,97E-03	1,36E-02	1,24E-02	2,37E-02
Ecotoxicity (freshwater)	[CTUe]	1,11E+02	9,45E+01	1,27E+01	1,75E+00	9,97E-03	1,93E+00	-2,05E+01
Human toxicity, cancer	[CTUh]	4,87E-08	4,85E-08	1,60E-10	4,10E-11	1,19E-12	4,00E-11	-7,89E-09
Human toxicity, non-carcinogenic	[CTUh]	1,55E-07	1,38E-07	1,17E-08	3,02E-09	1,23E-11	1,82E-09	-1,62E-08
Land use	[Pt]	1,72E+02	1,66E+02	4,65E+00	5,14E-01	2,13E-02	6,45E-01	-4,30E+00
Total primary energy use over the life cycle	[MJ]	3,31E+02	3,19E+02	7,26E+00	1,97E+00	2,22E-01	2,56E+00	-6,50E+01
Biogenic carbon content of the product	[kg 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 associated packaging	[kg C]	8,70E-01	8,70E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00

Result for the reference product, cross-section 2 dm²,

Reference product results									
Indicator	Modules	Stage of use	B1	B2	B3	B4	B5	B6	B7
	Unit	Total	Use	Maintenance	Repair	Replacement	Refurbishment	Energy-consumption	Water consumption
Climate change - total	[kg CO ₂ eq.]	1,68E-03	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,68E-03	0,00E+00
Climate change – fossil	[kg CO ₂ eq.]	1,66E-03	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,66E-03	0,00E+00
Climate change – biogenic	[kg CO ₂ eq.]	2,06E-05	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,06E-05	0,00E+00
Climate change, land use and land-use change	[kg CO ₂ eq.]	5,05E-06	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	5,05E-06	0,00E+00
Ozone depletion	[kg CFC-11 eq.]	8,54E-14	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	8,54E-14	0,00E+00
Acidification	[Mole of H+ eq.]	4,50E-06	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	4,50E-06	0,00E+00
Freshwater eutrophication	[kg P eq.]	6,02E-09	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	6,02E-09	0,00E+00
Marine eutrophication	[kg N eq.]	1,36E-06	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,36E-06	0,00E+00
Terrestrial eutrophication	[Mole of N eq.]	1,42E-05	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,42E-05	0,00E+00
Photochemical ozone formation, human health	[kg NMVOC eq.]	3,15E-06	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	3,15E-06	0,00E+00
Resource use, minerals and metals	[kg Sb eq.]	7,45E-10	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	7,45E-10	0,00E+00
Resource use, fossil	[MJ]	1,72E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,72E-01	0,00E+00
Water use	[m ³ equiv, world]	6,60E-04	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	6,60E-04	0,00E+00
Use of renewable primary energy (PERE)	[MJ]	5,04E-02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	5,04E-02	0,00E+00
Primary energy resources used as raw materials (PERM)	[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
Total use of renewable primary energy resources (PERT)	[MJ]	5,04E-02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	5,04E-02	0,00E+00
Use of non-renewable primary energy (PENRE)	[MJ]	1,72E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,72E-01	0,00E+00
Non-renewable primary energy resources used as raw materials (PENRM)	[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
Total use of non-renewable primary energy resources	[MJ]	1,72E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,72E-01	0,00E+00
Use of secondary materials	[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
Use of renewable secondary fuels	[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
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	0,00E+00	0,00E+00
Freshwater use	[m ³]	7,40E-05	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	7,40E-05	0,00E+00
Hazardous waste disposed of	[kg]	9,19E-11	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	9,19E-11	0,00E+00
Non-hazardous waste disposed	[kg]	5,52E-05	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	5,52E-05	0,00E+00
Radioactive waste disposed	[kg]	5,37E-05	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	5,37E-05	0,00E+00
Components for reuse	[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
Materials for recycling	[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
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	0,00E+00
Electricity exported	[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
Thermal energy exported	[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
Particulate matter	[Disease incidences]	3,90E-11	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	3,90E-11	0,00E+00
Ionising radiation, human health	[kBq U235 eq.]	1,36E-02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,36E-02	0,00E+00
Ecotoxicity (freshwater)	[CTUe]	9,97E-03	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	9,97E-03	0,00E+00
Human toxicity, cancer	[CTUh]	1,19E-12	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,19E-12	0,00E+00
Human toxicity, non-carcinogenic	[CTUh]	1,23E-11	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,23E-11	0,00E+00
Land use	[Pt]	2,13E-02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,13E-02	0,00E+00
Total primary energy use over the life cycle	[MJ]	2,22E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,22E-01	0,00E+00

Extrapolation rules

The extrapolation coefficients have been calculated in accordance with standard PSR-0008-ed3,0-EN-2023 10 19 and are used to calculate the impact of other members of the CU-LT family, To calculate the result for the selected dimension, the indicator result must be multiplied by a coefficient that depends on the module, The reference product is shown in red,

Calculation of the functional unit

CU-LT extrapolation coefficients for the functional unit [1 dm ²] for modules A123, A4, D													
Hn\Wn [mm]	200	250	300	350	400	450	500	550	600	650	700	750	800
100	1,00	0,84	0,75	0,68	0,64	0,60	0,57	0,54	0,52	0,52	0,50	0,48	0,47
150	0,71	0,61	0,55	0,50	0,47	0,44	0,42	0,40	0,39	0,38	0,37	0,36	0,35
200	0,58	0,50	0,45	0,41	0,39	0,37	0,35	0,33	0,32	0,31	0,30	0,30	0,29
250	0,50	0,43	0,39	0,35	0,34	0,32	0,30	0,29	0,28	0,27	0,27	0,26	0,25
300	0,45	0,39	0,35	0,32	0,30	0,29	0,27	0,26	0,25	0,25	0,24	0,24	0,23
350	0,41	0,36	0,32	0,29	0,28	0,26	0,25	0,24	0,23	0,23	0,22	0,22	0,21
400	0,39	0,34	0,30	0,27	0,26	0,25	0,24	0,23	0,22	0,22	0,21	0,20	0,20
450	0,37	0,32	0,29	0,26	0,25	0,23	0,22	0,21	0,21	0,20	0,20	0,19	0,19
500	0,35	0,30	0,27	0,25	0,24	0,22	0,21	0,21	0,20	0,19	0,19	0,19	0,18
550	0,33	0,29	0,26	0,24	0,23	0,21	0,21	0,20	0,19	0,19	0,18	0,18	0,18
600	0,32	0,28	0,25	0,23	0,22	0,21	0,20	0,19	0,19	0,18	0,18	0,17	0,17

CU-LT extrapolation coefficients for the functional unit [1 dm ²] for module A5													
Hn\Wn [mm]	200	250	300	350	400	450	500	550	600	650	700	750	800
100	1,00	0,80	0,67	0,57	0,71	0,63	0,57	0,52	0,48	0,62	0,57	0,54	0,50
150	0,67	0,53	0,44	0,38	0,48	0,42	0,38	0,35	0,32	0,41	0,38	0,36	0,34
200	0,50	0,40	0,33	0,28	0,36	0,32	0,29	0,26	0,24	0,31	0,29	0,27	0,25
250	0,40	0,32	0,27	0,23	0,29	0,25	0,23	0,21	0,19	0,25	0,23	0,21	0,20
300	0,33	0,27	0,22	0,19	0,24	0,21	0,19	0,17	0,16	0,21	0,19	0,18	0,17
350	0,29	0,23	0,19	0,16	0,20	0,18	0,16	0,15	0,14	0,18	0,16	0,15	0,14
400	0,36	0,29	0,24	0,20	0,18	0,16	0,14	0,13	0,17	0,15	0,14	0,13	0,13
450	0,32	0,25	0,21	0,18	0,16	0,14	0,13	0,12	0,15	0,14	0,13	0,12	0,11
500	0,29	0,23	0,19	0,16	0,14	0,13	0,11	0,10	0,13	0,12	0,11	0,11	0,10
550	0,26	0,21	0,17	0,14	0,13	0,12	0,10	0,09	0,12	0,11	0,10	0,10	0,09
600	0,24	0,19	0,16	0,13	0,17	0,15	0,13	0,12	0,11	0,10	0,10	0,09	0,08

CU-LT extrapolation coefficients for the functional unit [1 dm ²] for modules B1-B7													
Hn\ Wn [mm]	200	250	300	350	400	450	500	550	600	650	700	750	800
100	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00
150	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00
200	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00
250	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00
300	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00
350	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00
400	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00
450	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00
500	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00
550	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00
600	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00

CU-LT extrapolation coefficients for the functional unit [1 dm ²] for modules C1-C4													
Hn\Wn [mm]	200	250	300	350	400	450	500	550	600	650	700	750	800
100	1,00	0,84	0,75	0,68	0,64	0,60	0,57	0,54	0,53	0,51	0,49	0,48	0,47
150	0,71	0,61	0,56	0,51	0,47	0,44	0,43	0,41	0,39	0,38	0,37	0,36	0,35
200	0,59	0,51	0,46	0,41	0,39	0,37	0,35	0,34	0,33	0,31	0,31	0,30	0,29
250	0,51	0,44	0,39	0,36	0,34	0,32	0,31	0,29	0,29	0,28	0,27	0,26	0,26
300	0,46	0,39	0,35	0,32	0,31	0,29	0,28	0,27	0,26	0,25	0,24	0,24	0,23
350	0,42	0,36	0,33	0,30	0,28	0,27	0,26	0,25	0,24	0,23	0,23	0,22	0,22
400	0,39	0,34	0,31	0,28	0,27	0,25	0,24	0,23	0,23	0,22	0,21	0,21	0,20
450	0,37	0,32	0,29	0,26	0,25	0,24	0,23	0,22	0,21	0,21	0,20	0,20	0,20
500	0,35	0,31	0,28	0,25	0,24	0,23	0,22	0,21	0,20	0,20	0,20	0,19	0,19
550	0,34	0,29	0,27	0,24	0,23	0,22	0,21	0,20	0,20	0,19	0,19	0,18	0,18
600	0,33	0,29	0,26	0,23	0,23	0,21	0,20	0,20	0,19	0,19	0,18	0,18	0,18

Extrapolation of CU-LT fire dampers – coefficients for modules A123, A4, D													
Hn\Wn [mm]	200	250	300	350	400	450	500	550	600	650	700	750	800
100	1,00	1,05	1,12	1,18	1,28	1,36	1,43	1,49	1,57	1,68	1,73	1,81	1,89
150	1,07	1,14	1,24	1,32	1,41	1,49	1,59	1,66	1,74	1,87	1,94	2,02	2,10
200	1,16	1,26	1,35	1,43	1,55	1,64	1,74	1,84	1,93	2,04	2,13	2,23	2,33
250	1,26	1,35	1,45	1,56	1,68	1,80	1,89	1,99	2,10	2,23	2,34	2,44	2,54
300	1,35	1,45	1,56	1,68	1,82	1,93	2,05	2,16	2,27	2,42	2,54	2,65	2,76
350	1,43	1,56	1,68	1,81	1,95	2,08	2,20	2,33	2,45	2,61	2,73	2,86	2,97
400	1,55	1,68	1,82	1,95	2,08	2,24	2,37	2,50	2,67	2,80	2,94	3,07	3,20
450	1,64	1,80	1,93	2,08	2,24	2,37	2,52	2,66	2,84	2,99	3,13	3,28	3,43
500	1,74	1,89	2,05	2,20	2,37	2,52	2,68	2,83	3,01	3,17	3,34	3,49	3,64
550	1,84	1,99	2,16	2,33	2,50	2,66	2,83	3,00	3,20	3,36	3,53	3,70	3,87
600	1,93	2,10	2,27	2,45	2,67	2,84	3,01	3,20	3,38	3,55	3,72	3,91	4,08

CU-LT extrapolation coefficients for the functional unit [1 dm ²] for module A5													
Hn\Wn [mm]	200	250	300	350	400	450	500	550	600	650	700	750	800
100	1,00	1,00	1,00	1,00	1,43	1,43	1,43	1,43	1,43	2,01	2,01	2,01	2,01
150	1,00	1,00	1,00	1,00	1,43	1,43	1,43	1,43	1,43	2,01	2,01	2,01	2,01
200	1,00	1,00	1,00	1,00	1,43	1,43	1,43	1,43	1,43	2,01	2,01	2,01	2,01
250	1,00	1,00	1,00	1,00	1,43	1,43	1,43	1,43	1,43	2,01	2,01	2,01	2,01
300	1,00	1,00	1,00	1,00	1,43	1,43	1,43	1,43	1,43	2,01	2,01	2,01	2,01
350	1,00	1,00	1,00	1,00	1,43	1,43	1,43	1,43	1,43	2,01	2,01	2,01	2,01
400	1,43	1,43	1,43	1,43	1,43	1,43	1,43	1,43	2,01	2,01	2,01	2,01	2,01
450	1,43	1,43	1,43	1,43	1,43	1,43	1,43	1,43	2,01	2,01	2,01	2,01	2,01
500	1,43	1,43	1,43	1,43	1,43	1,43	1,43	1,43	2,01	2,01	2,01	2,01	2,01
550	1,43	1,43	1,43	1,43	1,43	1,43	1,43	1,43	2,01	2,01	2,01	2,01	2,01
600	1,43	1,43	1,43	1,43	2,01	2,01	2,01	2,01	2,01	2,01	2,01	2,01	2,01

CU-LT extrapolation coefficients for functional unit [1 dm ²] for module B1-B7													
Hn\Wn [mm]	200	250	300	350	400	450	500	550	600	650	700	750	800
100	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00
150	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00
200	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00
250	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00
300	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00
350	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00
400	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00
450	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00
500	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00
550	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00
600	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00

CU-LT extrapolation coefficients for functional unit [1 dm ²] for module C1-C4													
Hn\Wn [mm]	200	250	300	350	400	450	500	550	600	650	700	750	800
100	1,00	1,05	1,13	1,19	1,27	1,35	1,43	1,49	1,58	1,66	1,72	1,80	1,88
150	1,07	1,15	1,25	1,33	1,41	1,49	1,60	1,68	1,76	1,86	1,94	2,02	2,10
200	1,17	1,27	1,37	1,45	1,56	1,66	1,76	1,86	1,96	2,04	2,14	2,24	2,34
250	1,27	1,37	1,47	1,60	1,70	1,82	1,92	2,02	2,14	2,24	2,36	2,46	2,57
300	1,37	1,47	1,60	1,72	1,84	1,96	2,08	2,20	2,32	2,44	2,57	2,69	2,81
350	1,45	1,60	1,72	1,86	1,98	2,12	2,24	2,38	2,51	2,65	2,77	2,91	3,03
400	1,56	1,70	1,84	1,98	2,12	2,28	2,42	2,57	2,71	2,85	2,99	3,13	3,27
450	1,66	1,82	1,96	2,12	2,28	2,42	2,59	2,73	2,89	3,05	3,19	3,35	3,52
500	1,76	1,92	2,08	2,24	2,42	2,59	2,75	2,91	3,07	3,23	3,41	3,58	3,74
550	1,86	2,02	2,20	2,38	2,57	2,73	2,91	3,09	3,27	3,43	3,62	3,80	3,98
600	1,96	2,14	2,32	2,51	2,71	2,89	3,07	3,27	3,45	3,64	3,82	4,02	4,20



Rf-Technologies NV/SA | Lange Ambachtstraat 40, 9860 Oosterzele, Belgium
www.rft.eu | info@rft.eu | +32 9 362 31 71