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Product Environmental Profile

GREEN-I - STANDARD RECESSED/SURFACE RELAY/DALI ON-OFF SENSOR





■ LEGRAND'S ENVIRONMENTAL COMMITMENTS

- Incorporate environmental management into our industrial sites
- Of all Legrand sites worldwide, over 85% are ISO 14001-certified (sites belonging to the Group for more than five years).
- Offer our customers environmentally friendly solutions

Develop innovative solutions to help our customers design more energy efficient, better managed and more environmentally friendly installations.

• Involve the environment in product design and provide informations in compliance with ISO 14025 Reduce the environmental impact of products over their whole life cycle.

Provide our customers with all relevant information (composition, consumption, end of life, etc.).



■ REFERENCE PRODUCT ■

Function	Permits infrared control of a light source by detecting movement 360° at 2.5 m from the ground within an 8 m radius in accordance with IEC 60669-2-1 standard for 10 years.
Reference Product	
	Cat.No LG-048450
	GREEN-I - GI-SRW - STANDARD RECESSED ON-OFF WHITE SENSOR

The company reserves the right to change specifications and designs without notice. All illustrations, descriptions, dimensions and weights in the document are for guidance and cannot be held binding on the company.



■ PRODUCTS CONCERNED ■

The environmental data is representative of the following products:

Catalogue Numbers						
LG-048450	GREEN-I - GI-SRW - STANDARD RECESSED ON-OFF WHITE SENSOR					
LG-048451	GREEN-I - GI-SRW-D - STANDARD RECESSED DALI WHITE SENSOR					
LG-048452	GREEN-I - GI-SSW - STANDARD SURFACE ON-OFF WHITE SENSOR					
LG-048453	GREEN-I - GI-SSW-D - STANDARD SURFACE DALI WHITE SENSOR					
LG-048454	GREEN-I - GI-SRB - STANDARD RECESSED ON-OFF BLACK SENSOR					
LG-048455	GREEN-I - GI-SRB-D - STANDARD RECESSED DALI BLACK SENSOR					
LG-048456	GREEN-I - GI-SSB - STANDARD SURFACE ON-OFF BLACK SENSOR					
LG-048457	GREEN-I - GI-SSB-D - STANDARD SURFACE DALI BLACK SENSOR					





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CONSTITUENT MATERIALS

This Reference Product contains no substances prohibited by the regulations applicable at the time of its introduction to the market.

Total weight of	
Reference Product	0.14 kg (all packaging included)

Product alone weight 0.09 kg							
Plastics as % of weight		Metals as % of weight		Other as % of weight			
PC	36.7 %	Steel	Steel 3.3 %		21.6 %		
PE	1.0 %						

Packaging (alone) : 0.05 kg						
PE	0.1 %			Cardboard	32.4 %	
				Wood	4.9 %	

Total plastics : 0.05 kg	378%	Total metals : <0.01 kg	3.3 %	Total others : 0.08 kg	58.9 %
iotai piastics i 0.05 kg	37.0 /0	iotal illetais . Volot kg	3.3 /0	iotai otileis i oloo kg	30.3 /0

At the date of edition of this document, the content of recycled material(s) is:

- Product alone (excluding packaging): 0% by mass
- Packaging only: 76% by mass



MANUFACTURE MANUFACTURE

This Reference Product comes from sites that have received ISO14001 certification. The final assembly site is located at Wuxi.



■ DISTRIBUTION ■

Products are distributed from logistics centres located with a view to optimize transport efficiency. The Reference Product is therefore transported over an average distance of 1000 km by truck and 19000 km by boat from our warehouse to the local point of distribution into the market all around the world.



■ INSTALLATION ■

For the installation of the product, only standard tools are needed.



USE

Under normal conditions of use, this product requires no servicing, no maintenance or additional products.



■ END OF LIFE ■

The product end of life factors are taken into account during the design phase. Dismantling and sorting of components or materials is made as easy as possible with a view to recycling or failing that, another form of reuse.





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■ ENVIRONMENTAL IMPACTS ■

The evaluation of environmental impacts examines the stages of the Reference Product life cycle: manufacturing, distribution, installation, use and end of life.

The datasets collected in this PEP are representative of the year 2025.

For each phase, the following modelling elements were taken in account:

	Manufacture A1-A3	Materials and components of the product, all transport for the manufacturing, the packaging and the waste generated by the manufacturing.
	Distribution A4	Transport between the last Group distribution centre and an average delivery point in the sales area.
n Limit	Installation A5	The end of life of the packaging.
System	Use B1-B7	 Product category: active products. Use scenario: Continuous operation at 50% of active product (0.401 W) and at 50 % of standby product (0.137W). This modeling time is not a maximum durability requirement. Energy model: Consumption low voltage - Global - 2022.
	End of life C1-C4	The default end-of-life scenario for an international perimeter in accordance with the PCR-ed4-EN-2021 09 06.
D Mo	odule	Module D is calculated according to PCR-ed4-EN-2021 09 06 based on the materials recycled and the modelled end-of-life scenario. It expresses the net benefits and burdens beyond the boundaries of the system, and are not to be included in the life cycle totals.
Software and data- base used		The set of indicators used is Indicators for PEF EF 3.1 (Compliance: PEP ed.4, EN15804+A2) v2.0 EIME V6 and its CODDE-2025-04 database

Unless otherwise indicated the modelling energetic mix are those integrated in the data modules used from the aformentioned database.



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■ ENVIRONMENTAL IMPACTS

	Total I	ife Cycle	Manufacturing	Distribution	Installation	Use ⁽¹⁾			End of Life
	istal Elle Sycie			A4	A5	Total B1-B7	B2	В6	C1-C4
Climate change - total	1.31E+01	kg CO2 eq.	1.77E+00	1.28E-02	9.99E-02	1.12E+01	0.00E+00	1.12E+01	4.66E-02
Climate change - fossil fuels	1.30E+01	kg CO2 eq.	1.83E+00	1.28E-02	1.78E-02	1.11E+01	0.00E+00	1.11E+01	4.63E-02
Climate change - biogenics	1.41E-01	kg CO2 eq.	-6.45E-02	0*	8.20E-02	1.23E-01	0.00E+00	1.23E-01	2.49E-04
Climate change - land use and land use transformation	7.95E-05	kg CO2 eq.	7.95E-05	8.15E-09	0*	0.00E+00	0.00E+00	0.00E+00	8.79E-09
Ozone depletion	2.49E-07	kg.equivalent. CFC-11	1.98E-07	7.48E-11	6.52E-10	4.75E-08	0.00E+00	4.75E-08	3.02E-09
Acidification (AP)	6.88E-02	mole of H+ equiv	1.03E-02	1.92E-04	1.05E-04	5.79E-02	0.00E+00	5.79E-02	3.03E-04
Freshwater eutrophication	2.53E-05	kg P eq.	7.28E-06	3.28E-08	2.21E-08	1.79E-05	0.00E+00	1.79E-05	5.73E-08
Marine aquatic eutrophication	8.14E-03	kg of N equiv	1.09E-03	5.26E-05	2.53E-05	6.91E-03	0.00E+00	6.91E-03	5.89E-05
Terrestrial eutrophication	1.04E-01	mole of N equiv	1.25E-02	5.76E-04	3.39E-04	8.99E-02	0.00E+00	8.99E-02	7.62E-04
Photochemical ozone formation	2.68E-02	kg of NMVOC equiv	3.86E-03	1.45E-04	7.12E-05	2.26E-02	0.00E+00	2.26E-02	1.75E-04
Depletion of abiotic resources - elements	6.63E-04	kg.equivalent. Sb	6.61E-04	0*	0*	2.46E-06	0.00E+00	2.46E-06	0*
Depletion of abiotic resources - fossil fuels	2.67E+02	МЈ	2.75E+01	1.95E-01	3.34E-01	2.38E+02	0.00E+00	2.38E+02	7.96E-01
Water requirement	1.46E+00	m3 of equiv. deprivation worldwide	7.61E-01	3.41E-04	1.06E-03	6.96E-01	0.00E+00	6.96E-01	4.48E-03
Emission of fine particles	4.77E-07	incidence of diseases	6.96E-08	8.17E-10	7.29E-10	4.04E-07	0.00E+00	4.04E-07	2.06E-09

Module D

-6.84E-02 -1.07E-02 -5.77E-02 0.00E + 00-9.33E-09 -3.09E-04 4.33E-07 2.83E-05 8.78E-05 -2.60E-05 -2.09E-04 -4.44E-01 -3.62E-02 -5.80E-09

PEP ecopassport n° LGRP-02199-V01.01-EN

^{*}Represents less than 0.01% of the total life cycle of the reference flow

⁽¹⁾ For the Use phase and according to the current PCR, the information modules B1, B3, B4, B5 and B7, all having indicator values equal to «0» (zero), are not listed in this table. In accordance with current PCR rules, the environmental indicator values in the «Module D» column must not be summed with the values in the «Total Life Cycle» column



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	Total Life Cycle		Total Life Cycle		Manufacturing	Distribution	Installation		Use ⁽¹⁾		End of Life
			A1-A3	A4	A5	Total B1-B7	B2	В6	C1-C4		
lonizing radiation, human health	2.03E+01	kBq of U235 equiv.	1.05E+01	0*	6.79E-03	9.77E+00	0.00E+00	9.77E+00	1.42E-02		
Ecotoxicity (fresh water)	5.26E+01	CTUe	3.42E+01	1.55E-01	4.54E-01	1.68E+01	0.00E+00	1.68E+01	1.05E+00		
Human toxicity, carcinogenic effects	7.76E-08	CTUh	7.62E-08	0*	0*	1.36E-09	0.00E+00	1.36E-09	7.22E-11		
Human toxicity, non-carcinogenic effects	8.74E-08	CTUh	4.96E-08	2.47E-11	1.33E-10	3.71E-08	0.00E+00	3.71E-08	5.57E-10		
Impacts related to land use/soil quality	4.47E-01	-	2.38E-01	0*	3.98E-04	2.08E-01	0.00E+00	2.08E-01	8.02E-04		
Use of renewable primary energy, excluding renewable primary energy resources used as raw materials	4.25E+01	МЈ	2.38E+00	0*	2.94E-02	4.00E+01	0.00E+00	4.00E+01	5.66E-02		
Use of renewable primary energy resources used as raw materials	3.49E-01	МЈ	3.49E-01	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 (primary energy and primary energy resources used as raw materials)	4.28E+01	мл	2.73E+00	0*	2.94E-02	4.00E+01	0.00E+00	4.00E+01	5.66E-02		
Use of non-renewable primary energy, excluding non-renewable primary energy resources used as raw materials	2.65E+02	МЈ	2.50E+01	1.95E-01	3.34E-01	2.38E+02	0.00E+00	2.38E+02	7.96E-01		
Use of non-renewable primary energy resources used as raw materials	2.43E+00	МЈ	2.43E+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 (primary energy and primary energy resources used as raw materials)	2.67E+02	МЈ	2.75E+01	1.95E-01	3.34E-01	2.38E+02	0.00E+00	2.38E+02	7.96E-01		

Module D -1.88E-03 7.08E-01 -2.96E-08 -1.83E-08 0.00E+00 -1.96E-01 7.27E-01 5.31E-01 -4.44E-01 0.00E+00 -4.44E-01

PEP ecopassport n° LGRP-02199-V01.01-EN

^{*}Represents less than 0.01% of the total life cycle of the reference flow

⁽¹⁾ For the Use phase and according to the current PCR, the information modules B1, B3, B4, B5 and B7, all having indicator values equal to «0» (zero), are not listed in this table In accordance with current PCR rules, the environmental indicator values in the «Module D» column must not be summed with the values in the «Total Life Cycle» column



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	Total Life Cycle		Manufacturing	Distribution Installati	Installation	stallation Use ⁽¹⁾			End of Life
			A1-A3	A4	A5	Total B1-B7	B2	B6	C1-C4
Use of secondary materials	4.04E-02	kg	4.04E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of renewable secondary fuels	0.00E+00	МЛ	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	0.00E+00	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Net use of fresh water	3.43E-02	m3	1.80E-02	7.94E-06	2.42E-05	1.62E-02	0.00E+00	1.62E-02	1.15E-04
Hazardous waste disposed of	4.73E+00	kg	4.35E+00	0*	1.97E-02	2.65E-01	0.00E+00	2.65E-01	9.16E-02
Non-hazardous waste disposed of	2.35E+00	kg	5.40E-01	5.01E-04	2.42E-03	1.78E+00	0.00E+00	1.78E+00	2.81E-02
Radioactive waste disposed of	5.97E-04	kg	2.36E-04	3.96E-07	1.01E-06	3.51E-04	0.00E+00	3.51E-04	8.45E-06
Components for re-use	0.00E+00	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	9.80E-03	kg	2.29E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.51E-03
Materials for energy recovery	0.00E+00	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Exported energy	0.00E+00	MJ by energy vector	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Total use of primary energy during the life cycle	3.10E+02	МЛ	3.02E+01	1.95E-01	3.63E-01	2.78E+02	0.00E+00	2.78E+02	8.53E-01

Module D
0.00E+00
0.00E+00
0.00E+00
-8.42E-04
-3.54E+00
-1.03E-02
-1.36E-05
0.00E+00
0.00E+00
0.00E+00
0.00E+00
8.67E-02

Biogenic carbon content of the product	0.00E+00	kg of C.	0.00E+00
Biogenic carbon content of the associated packaging	2.49E-02	kg of C.	2.49E-02

^{*}Represents less than 0.01% of the total life cycle of the reference flow.

In accordance with current RCP rules, the environmental indicator values in the «Module D» column must not be summed with the values in the «Total Life Cycle» column.

The values of the indicators defined in PCR-ed4-EN-2021 09 06 are available in digital format in the database on the pep-ecopassport.org website.

The life cycle analysis complies with the specific rules applicable to Autonomous Electrical Safety Devices PSR0005-ed3.1-FR-2023 12 08, available at www.pep-ecopassport.org. Digital service-related impacts of the product are not assessed (remote control).

PEP ecopassport n° LGRP-02199-V01.01-EN

⁽¹⁾ For the Use stage and in accordance with the PCR in force, information modules B1, B3, B4, B5 and B7, which all have indicator values equal to «0» (zero), are not represented in this table. For biogenic carbon storage, the methodology used is -1/+1.



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To obtain the environmental impact values of products other than the Reference Product, take the environmental impact values of the Reference Product and multiply them by the values in the coefficient table below.

About LG-048454, take the environmental impact values of the Reference Product.

Associated references	Coefficient of extrapolation of environnemental indicators							
		Total life Cycle	Manufacturing	Distribution	Installation	Use	End of life	
	Climate change - total	0.9	2.0	1.1	0.4	0.7	1.0	
	Climate change - fossil fuels	0.9	2.0	1.1	0.4	0.7	1.0	
	Climate change - biogenics	0.3	1.3	1.1	0.4	0.7	1.0	
	Climate change - land use and land use transformation	1.0	1.0	1.1	0.4	1.0	1.0	
	Ozone depletion	2.2	2.7	1.1	0.4	0.7	1.0	
	Acidification (AP)	0.9	1.6	1.1	0.4	0.7	1.0	
	Freshwater eutrophication	1.0	1.6	1.1	0.4	0.7	1.0	
	Marine aquatic eutrophication	0.9	1.7	1.1	0.4	0.7	1.0	
	Terrestrial eutrophication	0.8	1.7	1.1	0.4	0.7	1.0	
	Photochemical ozone formation	0.9	1.6	1.1	0.4	0.7	1.0	
	Depletion of abiotic resources - elements	0.6	0.6	1.1	0.4	0.7	1.0	
	Depletion of abiotic resources - fossil fuels	0.8	1.6	1.1	0.4	0.7	1.0	
	Water requirement	1.3	1.8	1.1	0.4	0.7	1.0	
	Emission of fine particles	0.9	1.6	1.1	0.4	0.7	1.0	
	Ionizing radiation, human health	0.9	1.0	1.1	0.4	0.7	1.0	
	Ecotoxicity (fresh water)	1.1	1.3	1.1	0.4	0.7	1.0	
	Human toxicity, carcinogenic effects	1.0	1.0	1.1	0.4	0.7	1.0	
	Human toxicity, non-carcinogenic effects	1.0	1.2	1.1	0.4	0.7	1.0	
	Impacts related to land use/soil quality	0.9	1.0	1.1	0.4	0.7	1.0	
.G-048451	Use of renewable primary energy, excluding renewable primary energy resources used as raw materials	0.8	1.6	1.1	0.4	0.7	1.0	
.G-048455	Use of renewable primary energy resources used as raw materials	1.8	1.8	1.0	1.0	1.0	1.0	
	Total use of renewable primary energy resources (primary energy and primary energy resources used as raw materials)	0.8	1.6	1.1	0.4	0.7	1.0	
	Use of non-renewable primary energy, excluding non-renewable primary energy resources used as raw materials	0.8	1.7	1.1	0.4	0.7	1.0	
	Use of non-renewable primary energy resources used as raw materials	0.9	0.9	1.0	1.0	1.0	1.0	
	Total use of non-renewable primary energy resources (primary energy and primary energy resources used as raw materials)	0.8	1.6	1.1	0.4	0.7	1.0	
	Use of secondary materials	1.0	1.0	1.0	1.0	1.0	1.0	
	Use of renewable secondary fuels	1.0	1.0	1.0	1.0	1.0	1.0	
	Use of non-renewable secondary fuels	1.0	1.0	1.0	1.0	1.0	1.0	
	Net use of fresh water	1.3	1.8	1.1	0.4	0.7	1.0	
	Hazardous waste disposed of	1.1	1.2	1.1	0.4	0.7	1.0	
	Non-hazardous waste disposed of	1.0	1.9	1.1	0.4	0.7	1.0	
	Radioactive waste disposed of	1.2	2.0	1.1	0.4	0.7	1.0	
	Components for re-use	1.0	1.0	1.0	1.0	1.0	1.0	
	Materials for recycling	1.0	1.0	1.0	1.0	1.0	1.0	
	Materials for energy recovery	1.0	1.0	1.0	1.0	1.0	1.0	
	Exported energy	1.0	1.0	1.0	1.0	1.0	1.0	
	Total use of primary energy during the life cycle	0.8	1.6	1.1	0.4	0.7	1.0	
	Biogenic carbon content of the product	1.0	1.0	1.0	1.0	1.0	1.0	
	Biogenic carbon content of the associated packaging	1.2	1.2	1.0	1.0	1.0	1.0	



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Associated references	Coefficient of extrapolation of environnemental indicators							
		Total life Cycle	Manufacturing	Distribution	Installation	Use	End of life	
	Climate change - total	1.0	1.1	1.2	0.3	1.0	1.3	
	Climate change - fossil fuels	1.0	1.1	1.2	0.3	1.0	1.3	
	Climate change - biogenics	0.4	1.0	1.2	0.3	1.0	1.3	
	Climate change - land use and land use transformation	1.6	1.6	1.2	0.3	1.0	1.1	
	Ozone depletion	1.0	1.0	1.2	0.3	1.0	1.3	
	Acidification (AP)	1.0	1.0	1.2	0.3	1.0	1.3	
	Freshwater eutrophication	1.0	1.1	1.2	0.3	1.0	1.2	
	Marine aquatic eutrophication	1.0	1.1	1.2	0.3	1.0	1.4	
	Terrestrial eutrophication	1.0	1.1	1.2	0.3	1.0	1.4	
	Photochemical ozone formation	1.0	1.1	1.2	0.3	1.0	1.4	
	Depletion of abiotic resources - elements	1.0	1.0	1.2	0.3	1.0	1.3	
	Depletion of abiotic resources - fossil fuels	1.0	1.1	1.2	0.3	1.0	1.3	
	Water requirement	1.0	1.0	1.2	0.3	1.0	1.1	
	Emission of fine particles	1.0	1.0	1.2	0.3	1.0	1.3	
	Ionizing radiation, human health	1.0	1.0	1.2	0.3	1.0	1.3	
	Ecotoxicity (fresh water)	1.0	1.0	1.2	0.3	1.0	1.5	
	Human toxicity, carcinogenic effects	0.6	0.6	1.2	0.3	1.0	1.1	
	Human toxicity, non-carcinogenic effects	1.0	1.0	1.2	0.3	1.0	1.3	
	Impacts related to land use/soil quality	1.3	1.6	1.2	0.3	1.0	1.3	
.G-048452	Use of renewable primary energy, excluding renewable primary energy resources used as raw materials	1.0	1.1	1.2	0.3	1.0	1.3	
.G-048456	Use of renewable primary energy resources used as raw materials	1.8	1.8	1.0	1.0	1.0	1.0	
	Total use of renewable primary energy resources (primary energy and primary energy resources used as raw materials)	1.0	1.2	1.2	0.3	1.0	1.3	
	Use of non-renewable primary energy, excluding non-renewable primary energy resources used as raw materials	1.0	1.1	1.2	0.3	1.0	1.3	
	Use of non-renewable primary energy resources used as raw materials	1.5	1.5	1.0	1.0	1.0	1.0	
	Total use of non-renewable primary energy resources (primary energy and primary energy resources used as raw materials)	1.0	1.1	1.2	0.3	1.0	1.3	
	Use of secondary materials	0.8	0.8	1.0	1.0	1.0	1.0	
	Use of renewable secondary fuels	1.0	1.0	1.0	1.0	1.0	1.0	
	Use of non-renewable secondary fuels	1.0	1.0	1.0	1.0	1.0	1.0	
	Net use of fresh water	1.0	1.0	1.2	0.3	1.0	1.0	
	Hazardous waste disposed of	1.0	0.9	1.2	0.3	1.0	1.5	
	Non-hazardous waste disposed of	1.0	1.2	1.2	0.3	1.0	1.0	
	Radioactive waste disposed of	1.1	1.2	1.2	0.3	1.0	1.1	
	Components for re-use	1.0	1.0	1.0	1.0	1.0	1.0	
	Materials for recycling	0.8	0.9	1.0	1.0	1.0	0.6	
	Materials for energy recovery	1.0	1.0	1.0	1.0	1.0	1.0	
	Exported energy	1.0	1.0	1.0	1.0	1.0	1.0	
	Total use of primary energy during the life cycle	1.0	1.1	1.2	0.3	1.0	1.3	
	Biogenic carbon content of the product	1.0	1.0	1.0	1.0	1.0	1.0	
	Biogenic carbon content of the associated packaging	1.1	1.1	1.0	1.0	1.0	1.0	



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Product Environmental Profile

GREEN-I - STANDARD RECESSED/SURFACE RELAY/DALI ON-OFF SENSOR



Associated references	Coefficient of extrapolation of environnemental indicators							
		Total life Cycle	Manufacturing	Distribution	Installation	Use	End of life	
	Climate change - total	0.9	2.1	1.5	0.6	0.7	1.3	
	Climate change - fossil fuels	0.9	2.1	1.5	0.6	0.7	1.2	
	Climate change - biogenics	0.3	1.9	1.5	0.5	0.7	1.3	
	Climate change - land use and land use transformation	1.6	1.6	1.5	0.6	1.0	1.0	
	Ozone depletion	2.2	2.6	1.5	0.6	0.7	1.2	
	Acidification (AP)	0.9	1.7	1.5	0.6	0.7	1.3	
	Freshwater eutrophication	1.0	1.6	1.5	0.6	0.7	1.2	
	Marine aquatic eutrophication	0.9	1.9	1.5	0.6	0.7	1.4	
	Terrestrial eutrophication	0.9	1.8	1.5	0.6	0.7	1.4	
	Photochemical ozone formation	0.9	1.8	1.5	0.6	0.7	1.4	
	Depletion of abiotic resources - elements	1.1	1.1	1.5	0.6	0.7	1.3	
	Depletion of abiotic resources - fossil fuels	0.8	1.8	1.5	0.6	0.7	1.3	
	Water requirement	1.3	1.8	1.5	0.6	0.7	1.1	
	Emission of fine particles	0.9	1.6	1.5	0.6	0.7	1.3	
	Ionizing radiation, human health	0.9	1.0	1.5	0.6	0.7	1.3	
	Ecotoxicity (fresh water)	1.0	1.2	1.5	0.6	0.7	1.4	
	Human toxicity, carcinogenic effects	0.7	0.7	1.5	0.6	0.7	1.1	
	Human toxicity, non-carcinogenic effects	1.3	1.8	1.5	0.6	0.7	1.3	
	Impacts related to land use/soil quality	1.2	1.6	1.5	0.6	0.7	1.3	
LG-048453	Use of renewable primary energy, excluding renewable primary energy resources used as raw materials	0.8	1.7	1.5	0.6	0.7	1.3	
LG-048457	Use of renewable primary energy resources used as raw materials	4.1	4.1	1.0	1.0	1.0	1.0	
	Total use of renewable primary energy resources (primary energy and primary energy resources used as raw materials)	0.8	2.0	1.5	0.6	0.7	1.3	
	Use of non-renewable primary energy, excluding non-renewable primary energy resources used as raw materials	0.8	1.8	1.5	0.6	0.7	1.3	
	Use of non-renewable primary energy resources used as raw materials	1.4	1.4	1.0	1.0	1.0	1.0	
	Total use of non-renewable primary energy resources (primary energy and primary energy resources used as raw materials)	0.8	1.8	1.5	0.6	0.7	1.3	
	Use of secondary materials	0.8	8.0	1.0	1.0	1.0	1.0	
	Use of renewable secondary fuels	1.0	1.0	1.0	1.0	1.0	1.0	
	Use of non-renewable secondary fuels	1.0	1.0	1.0	1.0	1.0	1.0	
	Net use of fresh water	1.3	1.8	1.5	0.6	0.7	1.0	
	Hazardous waste disposed of	2.2	2.4	1.5	0.6	0.7	1.5	
	Non-hazardous waste disposed of	1.0	2.1	1.5	0.6	0.7	1.0	
	Radioactive waste disposed of	1.3	2.2	1.5	0.6	0.7	1.1	
	Components for re-use	1.0	1.0	1.0	1.0	1.0	1.0	
	Materials for recycling	0.8	1.0	1.0	1.0	1.0	0.6	
	Materials for energy recovery	1.0	1.0	1.0	1.0	1.0	1.0	
	Exported energy	1.0	1.0	1.0	1.0	1.0	1.0	
	Total use of primary energy during the life cycle	0.8	1.8	1.5	0.6	0.7	1.3	
	Biogenic carbon content of the product	1.0	1.0	1.0	1.0	1.0	1.0	
	Biogenic carbon content of the associated packaging	1.8	1.8	1.0	1.0	1.0	1.0	

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Date of issue: 09-2025	Validity period: 5 years					
Independent verification of the declaration and data, in	compliance with ISO 14025 : 2006					
Internal ☐ External ⊠	PEP					
The PCR review was conducted by a panel of experts chair						
PEP are compliant with NF C08-100-1:2016 and EN 50693 The elements of the present PEP cannot be compared with	:2019 or NF E38-500 :2022 PASS					
Document in compliance with ISO 14025 : 2006: «Environm Type III environmental declarations»						

Environmental data in alignment with EN 15804: 2012 + A2: 2019