

Environmental Product Declaration

In accordance with ISO 14025:2006 and
EN 15804:2012+A2:2019/AC:2021 for:

KERATEK

Sinks
from **ELLECI S.P.A.**



THE INTERNATIONAL EPD® SYSTEM



Programme: The International EPD® System, www.environdec.com
Programme operator: EPD International AB
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EPD of multiple products, based on representative product.

An EPD should provide current information and may be updated if conditions change. The stated validity is therefore subject to the continued registration and publication at www.environdec.com



General information

Programme information

Programme: The International EPD® System

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Accountabilities for PCR, LCA and independent, third-party verification

Product Category Rules (PCR)

CEN standard EN 15804 serves as the Core Product Category Rules (PCR)

Product Category Rules (PCR): PCR 2019:14 Construction products, version 1.3.4

PCR review was conducted by: IVL Swedish Environmental Research Institute, the Secretariat of the International EPD System, CTME, Concrete NZ, Monk Spaces, Aquafil SpA; Version 1.0.0: IVL Swedish Environmental Research Institute, the Secretariat of the International EPD System

Life Cycle Assessment (LCA)

LCA accountability: RED RING Srl with Eng. Francesca Intini



Independent third-party verification of the declaration and data, according to ISO 14025:2006, via:

EPD verification by individual verifier

Third-party verifier: Adriana Del Borghi delborghi@tetisinstitute.it

Approved by: The International EPD® System

Procedure for follow-up of data during EPD validity involves third party verifier:

Yes No

The EPD owner has the sole ownership, liability, and responsibility for the EPD.

EPDs within the same product category but registered in different EPD programmes, or not compliant with EN 15804, may not be comparable. For two EPDs to be comparable, they must be based on the same PCR (including the same version number) or be based on fully-aligned PCRs or versions of PCRs; cover products with identical functions, technical performances and use (e.g. identical declared/functional units); have equivalent system boundaries and descriptions of data; apply equivalent data quality requirements, methods of data collection, and allocation methods; apply identical cut-off rules and impact assessment methods (including the same version of characterisation factors); have equivalent content declarations; and be valid at the time of comparison. For further information about comparability, see EN 15804 and ISO 14025.

Company information

Owner of the EPD: ELLECI S.P.A.

Contact: Graziano Traversa, graziano.traversa@elleci.it

Description of the organisation: Founded in 1992 by the Traversa family, Elleci designs, manufactures and distributes sinks, composite sinks and design accessories for the kitchen and bath world.

With its headquarters in Pontinia (LT) and branches in China, Germany, Poland, the UK and soon the US, Elleci is a leading brand in Italy, which enjoys worldwide acclaim.

Product-related or management system-related certifications:

Company certifications serve as important recognition of our operating practices and standards.

- ISO 9001:2015 Quality, Our ISO 9001:2015 Quality Management System demonstrates our commitment to customer satisfaction, quality products and services, and the continuous improvement of our processes.
- ISO 14001:2015 Environment, Our ISO 14001:2015 Environmental Management System confirms our commitment to optimising natural resources and reducing the environmental impact of our business practices.
- ISO 45001:2018 Health and safety, Our ISO 45001:2018 certification testifies to our commitment to the health and safety of our employees. We are committed to providing a safe and healthy working environment, adopting best practices to prevent accidents and protect the well-being of our employees.

Name and location of production site(s): Elleci S.p.A. Strada Longitudinale A 1258, 04014 Pontinia (LT) – Italy, Z.I. Mazzocchio

Product information

Product name: KERATEK Sinks

Product identification:

For more than 30 years, Elleci has been creating innovative materials and shaping ideas that improve people's quality of life.

The Elleci District is a specialized and connected ecosystem in which all company departments collaborate each others to increase business know-how. The heart of the headquarters is the Elleci Innovation Center, where researchers, designers, engineers and technicians work together with a common vision aimed at achieving excellence to develop new solutions that elevate everyday experiences, combining technology, functionality and aesthetic sensitivity.

With Keratek, the premium material with patented nanotechnology for the kitchen environment, Elleci revolutionizes the standards of beauty and performance of composite sinks.

Product description:

Keratek is the innovative material created to elevate the sensory experience in the kitchen. Thanks to the unique formulation of engineered quartz, microceramics, acrylic resins and precious nanotechnologies, the matte, intense and deep colours are unmatched, and the zero-porosity surface gives a pleasant silky smooth effect. It resists instant boiling water and shocks; it is easy to clean and it does not suffer from wear and tear.

Keratek is certified by NSF as a highly hygienic material suitable for contact with food, while the Green Guard Gold certifies low chemical emissions guaranteeing the health and safety of the environment.

Included products:

According to the General Programme Instruction (GPI) v. 4.0 and the PCR 2019:14 "Construction products" v.1.3.4, the results for each category of impact are represented for the product LKZ10586, identified as representative. This product is the model with the highest sales volumes in the 2023. The list of the products is available on the last page.

The net weight of LKZ10586 is 7,45 kg, but the gross weight is 10,99 kg.

UN CPC code: 376 Monumental or building stone and articles thereof

Geographical scope: A1-A2 Europe, A3 Italian, C Global.

LCA information

Functional unit / declared unit: The declared unit is 1 kg of product.

Reference service life: A typical service life is 40 years

Time representativeness: The LCA study is conducted in 2024 with data relating to 2023

Database(s) and LCA software used: The Ecoinvent database v.3.10 (www.ecoinvent.org) provides the life cycle inventory data for the raw and process materials obtained from the background system. LCA software used is SimaPro 9.6.0.1.

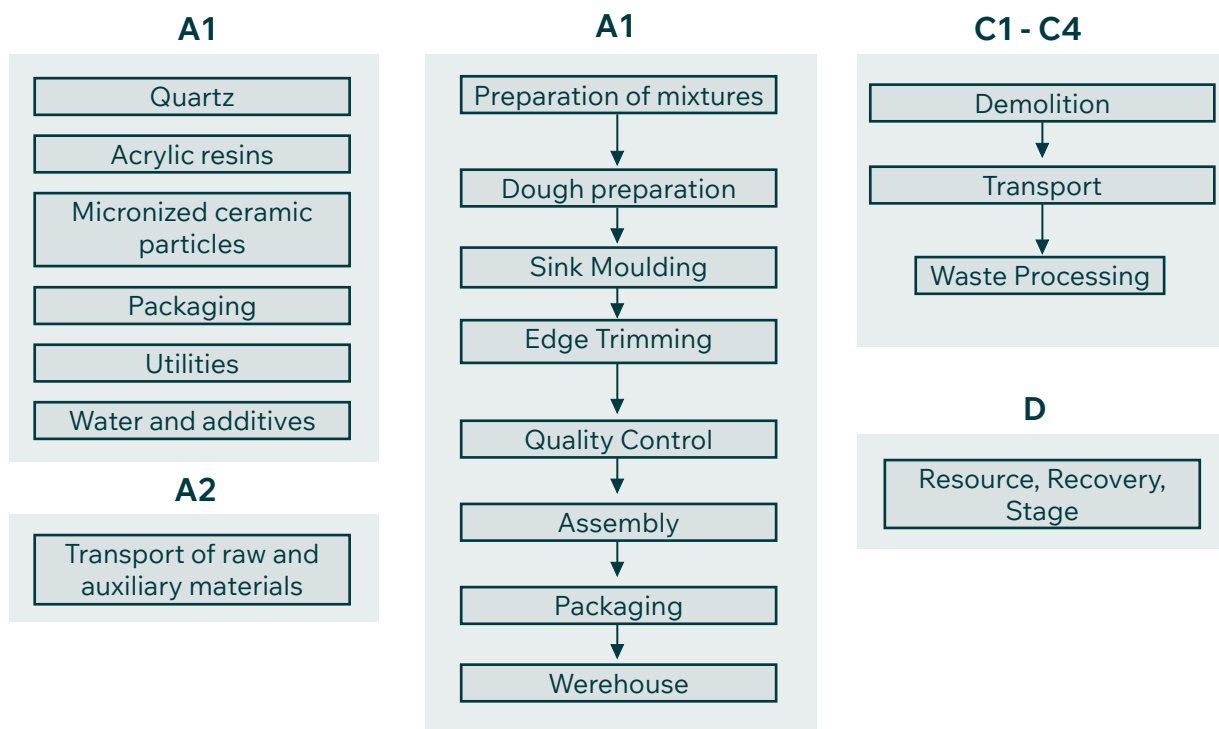
Cut-off rules: 1% cut-off is applied. Plant maintenance operations, infrastructure processes and machinery were excluded from the study.

Quality data: Specific data are used for raw materials, electricity, fuel data, emissions, waste data, average distances and means of transport in modules A2.

Electricity mix: The electricity used in the production process (phase A1-A3) was modelled using the national Residual Mix for a share of 85% and by the photovoltaic system for 15%. The GWP-GHG of the electricity mix is equal to: 0.554 kg CO₂eq./kWh

Description of system boundaries:

Cradle to gate with modules C1–C4 and module D (A1–A3 + C + D)



The transport of the product at the end of its life is modelled with a scenario equal to 20 km by truck. The product can be recovered and sent to companies specialized in recovery. A recovery percentage of 80% is estimated and the remainder sent to landfill. The impacts relating to the avoided impacts of the virgin raw material with a yield of 90% were quantified.

Modules declared, geographical scope, share of specific data (in GWP-GHG results) and data variation (in GWP-GHG results):

	Product stage			Construction process stage		Use stage							End of life stage				Resource recovery stage
	Raw materials supply	Transport	Manufacturing	Transport	Construction installation	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	De-construction demolition	Transport	Waste processing	Disposal	Reuse/Recovery/Recycling-potential
Module	A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Modules declared	X	X	X	ND	ND	ND	ND	ND	ND	ND	ND	ND	X	X	X	X	X
Geography	EU	EU	IT	-	-	-	-	-	-	-	-	-	GLO	GLO	GLO	GLO	GLO
Specific data used	>70%			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Variation - products	-8% +5%			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Variation - sites	-			-	-	-	-	-	-	-	-	-	-	-	-	-	-

The following table shows the range of variability for each module (the heaviest and the lightest) and for each category of impact. These values are required by PCR 2019:14 v.1.3.4 for EPD of multiple products with variances greater than 10%.

The heaviest product is LKS90086 but the lightest product is LKES5086. For the functional unit the choice of the incidence of the packaging is significant.

Module A1-A3	LKS90086	LGQ05040
ODP	-23%	6%
AP	-7%	5%
EP-freshwater	-16%	9%
EP- marine	-12%	9%
EP-terrestrial	-12%	10%
POCP	-10%	6%
ADP- minerals&metal s	-23%	10%
WDP	-21%	5%
GWP-GHG	-8%	5%

Content Information

Product components	Weight, kg	Post-consumer material, weight-%	Biogenic material, weight-% and kg C/kg
Quartz sand	0,5970	0	0
Acrylic resins	0,3890	0	0
Binding components	0,0140	0	0
TOTAL	1,000	0	0
Packaging materials	Weight, kg	Weight-% (versus the product)	Weight biogenic carbon, kg C/kg
Pallets	0,058	5,8%	0,027
Cardboard	0,299	29,9%	0,135
Plastic	0,010	1,0%	0
Accessories (plastic)	0,044	4,4%	0
Accessories (plastic-metal)	0,086	8,6%	0
Paper	0,034	3,4%	0,015
TOTAL	0,531	53,1%	0,177

The composition of the product does not vary in function of the item within the KERATEK family. The product do not contain substances which exceed the limits for registration with the European Chemicals Agency regarding the “Candidate List of Substances of Very High Concern for Authorisation”.

Results of the environmental performance indicators

Mandatory impact category indicators according to EN 15804

Results per declared unit 1 kg							
Indicator	Unit	A1-A3	C1	C2	C3	C4	D
GW P-fossil	kg CO ₂ eq.	5,63E+00	0,00E+00	4,81E-03	1,95E-02	1,25E-03	-3,10E-02
GW P-biogenic ¹	kg CO ₂ eq.	1,76E-02	0,00E+00	8,85E-07	7,22E-06	3,38E-07	-1,08E-05
GW P-land use	kg CO ₂ eq.	4,39E-03	0,00E+00	1,51E-06	2,31E-05	6,44E-07	-2,56E-05
GW P-total	kg CO ₂ eq.	5,65E+00	0,00E+00	4,81E-03	1,95E-02	1,25E-03	-3,11E-02
ODP	kg CFC 11 eq.	6,46E-08	0,00E+00	9,60E-11	3,94E-10	3,62E-11	-2,57E-10
AP	mol H ⁺ eq.	2,60E-02	0,00E+00	1,44E-05	1,22E-04	8,86E-06	-2,31E-04
EP-freshwater	kg P eq.	1,79E-04	0,00E+00	3,62E-08	2,45E-07	1,23E-08	-7,73E-07
EP-marine	kg N eq.	4,83E-03	0,00E+00	4,76E-06	4,65E-05	3,36E-06	-5,01E-05
EP-terrestrial	mol N eq.	4,18E-02	0,00E+00	5,25E-05	5,08E-04	3,69E-05	-5,57E-04
POCP	kg NM VOC eq.	2,09E-02	0,00E+00	2,27E-05	1,71E-04	1,32E-05	-1,75E-04
ADP-minerals & metals*	kg Sb eq.	1,13E-05	0,00E+00	1,53E-08	5,04E-08	1,95E-09	-6,73E-08
ADP-fossil*	MJ	9,52E+01	0,00E+00	6,70E-02	3,18E-01	3,07E-02	-3,40E-01
WD P*	m ³	1,30E+00	0,00E+00	2,55E-04	-1,56E-02	1,34E-03	-3,50E-02
Acronyms	GW P-fossil = Global Warming Potential fossil fuels; GW P-biogenic = Global Warming Potential biogenic; GW P-land use = Global Warming Potential land use and land use change; ODP = Depletion potential of the stratospheric ozone layer; AP = Acidification potential, Accumulated Exceedance; EP-freshwater = Eutrophication potential, fraction of nutrients reaching freshwater end compartment; EP-marine = Eutrophication potential, fraction of nutrients reaching marine end compartment; EP-terrestrial = Eutrophication potential, Accumulated Exceedance; POCP = Formation potential of tropospheric ozone; ADP-minerals & metals = Abiotic depletion potential for non-fossil resources; ADP-fossil = Abiotic depletion for fossil resources potential; WD P = Water (user) deprivation potential, deprivation-weighted water consumption						

* Disclaimer: The results of this environmental impact indicator shall be used with care as the uncertainties of these results are high or as there is limited experience with the indicator.

¹ The A1-A3 results includes the “balancing-out reporting” of the biogenic CO₂ of packaging released in module A5.

Additional mandatory impact category indicators

Results per declared unit 1kg							
Indicator	Unit	A1-A3	C1	C2	C3	C4	D
GWP-GHG[1]	kg CO ₂ eq.	5,65E+00	0,00E+00	4,81E-03	1,95E-02	1,25E-03	-3,11E-02

Resource use indicators

Results per declared unit 1kg							
Indicator	Unit	A1-A3	C1	C2	C3	C4	D
PERE	M J	2,33E+00	0,00E+00	1,25E-03	7,73E-03	2,76E-04	-2,10E-02
PERM	M J	3,55E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PERT	M J	5,89E+00	0,00E+00	1,25E-03	7,73E-03	2,76E-04	-2,10E-02
PENRE	M J	7,68E+01	0,00E+00	6,70E-02	3,18E-01	3,07E-02	-3,40E-01
PENRM	M J	1,85E+01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PENRT	M J	9,52E+01	0,00E+00	6,70E-02	3,18E-01	3,07E-02	-3,40E-01
SM	kg	1,92E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
RSF	M J	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
NRSF	M J	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
FW	m ³	3,38E-02	0,00E+00	9,33E-06	-3,13E-04	3,19E-05	-8,35E-04
Acronyms	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 resources; SM = Use of secondary material; RSF = Use of renewable secondary fuels; NRSF = Use of non-renewable secondary fuels; FW = Use of net fresh water						

2 This indicator accounts for all greenhouse gases except biogenic carbon dioxide uptake and emissions and biogenic carbon stored in the product. As such, the indicator is identical to GWP-total except that the CF for biogenic CO₂ is set to zero.

Waste indicators

Results per declared unit 1kg							
Indicator	Unit	A1-A3	C1	C2	C3	C4	D
Hazardous waste disposed	kg	5,89E-03	0,00E+00	1,54E-06	2,36E-05	4,31E-07	-1,59E-05
Non-hazardous waste disposed	kg	3,26E-01	0,00E+00	2,69E-03	5,58E-01	2,00E-01	-8,31E-03
Radioactive waste disposed	kg	3,35E-05	0,00E+00	2,57E-08	1,67E-07	4,77E-09	-1,15E-07

Output flow indicators

Results per declared unit 1kg							
Indicator	Unit	A1-A3	C1	C2	C3	C4	D
Components for re-use	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Material for recycling	kg	5,41E-01	0,00E+00	0,00E+00	8,00E-01	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, electricity	MJ	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

Additional social and economic information

We believe that technological evolution is inherently linked to the impact generated by production processes. With this mind, we prioritise sustainability, placing it at the heart of our business strategy to balance economic growth and environmental stewardship, employee wellness and value creation for society. The specific objectives and concrete actions that underlie Elleci's commitment to improving its environmental, social and governance performance are explained in the sustainability report published on the website: <https://www.elleci.com/company/sustainability/downloads/>

Differences versus previous versions

Adding new items to the analyzed product family.
Corrected some editing errors.

References

ISO 14025:2010 Environmental labels and declarations – Type III environmental declarations Principles and procedures.

ISO 14040:2021 Environmental management. Life cycle assessment. Principles and frameworks.

ISO 14044:2021 Environmental management. Life cycle assessment. Requirements and guidelines.

General Programme Instructions for Environmental Product Declarations, version 4.0, 2021-03-29.

PCR 2019:14 Construction products, version 1.3.4. - EN 15804:2012+A2:2019/AC:2021

EN 15804+A2 Sustainability in construction works – Environmental product declarations – Core rules for the product category of construction products.

Fascicolo Tecnico- Analisi del ciclo di vita dei prodotti – Lavelli cucina e lavabi bagno – Elleci S.P.A., Rev.03 24_02_2025, redatto da RED RING Srl con la collaborazione dell'Ing. Francesca Intini.

Included products

This declaration applies to products mentioned in the list, along with their finishes. The chosen reference product is highlighted in bold.

KERATEK	
Model	Description
B104	BEST 104
B105	BEST 105
B130	BEST 130
B360	BEST 360
B400	BEST 400
B450	BEST 450
B475	BEST 475
B480	BEST 480
B500	BEST 500
D360	DIALOGO 360 WORKSTATION
DC86	DIALOGO CANALE ATTREZZATO
ES70	ESSENZA 70
Q350BIN	INTEGRA 350
Q130BIN	INTEGRA 130
Q105BIN	INTEGRA 105
Q102BIN	INTEGRA 102
M590	MIXOLOGY 590
Q050	QUADRA 50
Q100	QUADRA 100
Q102	QUADRA 102
Q105	QUADRA 105
Q110	QUADRA 110
Q130	QUADRA 130
Q150	QUADRA 150
Q350	QUADRA 350
S105	SINTESI 105
S130	SINTESI 130
S305	SINTESI 305
S410	SINTESI 410
S480	SINTESI 480
S510	SINTESI 510
S900	SPAZIO 900
U125	UNICO 125
U300	UNICO 300
U305	UNICO 305
U310	UNICO 310

KERATEK	
Model	Description
U410	UNICO 410
U480	UNICO 480
U475	UNICO 475
U500	UNICO 500
Z102	ZEN 102
Z105	ZEN 105
Z130	ZEN 130
Z150	ZEN 150



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