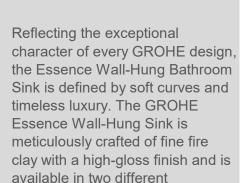
# **Environmental Product Declaration**Essence Wall Mount Sinks

Fine Fire Clay Sanitary Ceramic Wall Mount Sink





variations: Three-Holes 8" Center

& Center Hole Only.

Essence Wall Mount Sinks:

39668000 Three-Holes 8" Center 39669000 Center Hole Only

Making life healthier, safer and more beautiful at home, at work, and throughout the world.





#### **Essence Wall Mount Sinks**

Fine Fire Clay Sanitary Ceramic Wall Mount Sink





This declaration is an environmental product declaration (EPD) in accordance with ISO 14025. EPDs rely on Life Cycle Assessment (LCA) to provide information on a number of environmental impacts of products over their life cycle. Exclusions: EPDs do not indicate that any environmental or social performance benchmarks are met, and there may be impacts that they do not encompass. LCAs do not typically address the site-specific environmental impacts of raw material extraction, nor are they meant to assess human health toxicity. EPDs can complement but cannot replace tools and certifications that are designed to address these impacts and/or set performance thresholds – e.g. Type 1 certifications, health assessments and declarations, environmental impact assessments, etc. Accuracy of Results: EPDs regularly rely on estimations of impacts, and the level of accuracy in estimation of effect differs for any particular product line and reported impact. Comparability: EPDs are not comparative assertions and are either not comparable or have limited comparability when they cover different life cycle stages, are based on different product category rules or are missing relevant environmental impacts. EPDs from different programs may not be comparable.

PROGRAM OPERATOR	UL Environment				
DECLARATION HOLDER	LIXIL Water Technology				
DECLARATION NUMBER	4789961563.126.1				
DECLARED PRODUCT	Essence Wall Mount Sinks				
REFERENCE PCR	UL PCR for Sanitary Ceramics; v	.2.0 January (2018)			
REFERENCE PCR STANDARD	⊠ EN 15804 (2012)     □ ISO 21930 (2007)     ⋈ ISO 21930 (2017)				
DATE OF ISSUE	July 1, 2021				
PERIOD OF VALIDITY	5 Years				
CONTENTS OF THE DECLARATION	Product definition and information Information about basic material and Description of the product's manufundication of product processing Information about the in-use conductive cycle assessment results Testing results and verifications	and the material's origin ufacturing			
The PCR review was conducted b	y:	PCR Review Panel			
		Chair:Thomas P. Gloria			
		Industrial Ecology Consultants			
This declaration was independent 14025 by Underwriters Laboratori		Grant R. Martin			
INTERNAL	<b>EXTERNAL</b>	Grant R. Martin, UL Environment			
This life cycle assessment was inc with ISO 14044 and the reference	dependently verified in accordance PCR by	Thomas Gloria, Industrial Ecology Consultants			

<sup>1</sup> Exclusions: EPDs do not indicate that any environmental or social performance benchmarks are met, and there may be impacts that they do not encompass. LCAs do not typically address the site-specific environmental impacts of raw material extraction, nor are they meant to assess human health toxicity. EPDs can complement but cannot replace tools and certifications that are designed to address these impacts and/or set performance thresholds , e.g., Type 1 certifications, health assessments and declarations, environmental impact assessments, etc. Accuracy of Results: EPDs regularly rely on estimations of impacts, and the level of accuracy in estimation of effect differs for any particular product line and reported impact. Comparability: EPDs are not comparative assertions and are either not comparable or have limited comparability when they cover different life cycle stages, are based on different product category rules or are missing relevant environmental impacts. EPDs from different programs may not be comparable.





#### **Essence Wall Mount Sinks**

Fine Fire Clay Sanitary Ceramic Wall Mount Sink





# **Product Definition and Information**

# **Production Description**



Reflecting the exceptional character of every GROHE design, the Essence Wall-Hung Bathroom Sink is defined by soft curves and timeless luxury. The GROHE Essence Wall-Hung Sink is meticulously crafted of fine fire clay with a high-gloss finish and is available in two different variations: Three-Holes 8" Center & Center Hole Only.

Manufacturing Location: Sanikey, Turkey

## **Application**

- Meticulously crafted of fine fire clay with high-gloss finish in Alpine White
- Mounting kit and template included
- Pairs perfectly with GROHE Essence, GROHE Atrio and a select array of other GROHE 8 in. widespread faucets, sold separately
- Coordinating shroud conceals plumbing for an unobstructed look, sold separately
- Available in center hole only or 8" (203 mm) widespread configurations
- ADA compliant when installed without shroud option

## **Environmental Activities and Certification**

The LIXIL Group promotes conservation of water and raw materials and sustainable practices across the entire lifecycle of our products from inputs, procurement, through use and disposal. On September 17, 2017 LIXIL Group Corporation announced placement in the Dow Jones Sustainability Indices (DJSI) for sustainability performance. LIXIL Group was included in the DJSI Asia-Pacific Index as the highest scoring company in the Building Products Industry, and ranked third globally in this industry group.

# **Techincal Data**

For the declared product, the following technical data in the delivery status must be provided with reference to the test standard:

## **Technical Data**

Category	Value
Width	18"
Length	27"
Height	3-15/16"



**Essence Wall Mount Sinks** 

Fine Fire Clay Sanitary Ceramic Wall Mount Sink





# **Market Placement / Application Rules**

The standards that can be applied for the GROHE Essence Wall Mount / Above Counter Sinks are:

- ADA (when installed without wall hung shroud)
- ASME A112.19.2/CSA B45.1 Ceramic Plumbing Fixtures

## **Properties of Declared Product as Delivered**

The product arrives to the site of installation packaged in a cardboard box with similar dimensions to the product size stated above. Installation instructions are available online, and additional installation materials may be required.

## **Material Composition**

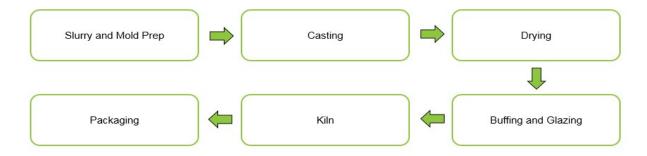
The composition of the Essence Wall Mount Sinks is as follows:

Component	Percentage in mass (%)
Fireclay	35-40%
Kaolin	15-25%
Ball Clay	15-25%
Silica	10-15%
Feldspar	2-5%
Other	0-4%
Total	100.00%

## **Manufacturing**

The manufacturing process of fire clay process begins with the casting of slip in a plaster mold. Slip is primarily comprised of clay, feldspar, and silica, along with various additives. The molded slip is dried, coated with a glaze material, and fired in a kiln. The product is then inspected, packaged, and shipped to the customer.

Manufacturing Location(s): Sanikey, TR





#### **Essence Wall Mount Sinks**

Fine Fire Clay Sanitary Ceramic Wall Mount Sink





## **Environmental and Health During Manufacturing**

LIXIL is committed to producing and distributing sanitary ceramics and tub products with minimal environmental impact, where health and safety is the primary focus for all employees and associates.

- Environmental operations, GHG, energy, water, waste, VOC, surface treatment and H&S are being routinely monitored. Inspections, audits, and reviews are conducted periodically to ensure that applicable standards are met and environment management program effectiveness is evaluated.
- Code of Conduct covers human rights, labor practices, and decent work. Management of LIXIL is aware of their environmental roles and responsibilities, providing appropriate training, supporting accountability, and recognizing outstanding performance.
- Any waste metals during machining are separated and recycled. Process water is treated internally before being discharged to municipal wastewater treatment.

## **Transportation**

The product is transported an average of 2696 km to the site of installation via a diesel-powered truck, consuming 32 MJ of diesel fuel.

#### Installation

The product is installed through a manual installation process, and as such, no noise reduction measures are required. Caulk is used to create a waterproof seal around the edges of the installed product. In some instances, a wax ring may be used to create a secure connection between the product and the existing infrastructure. The installation phase also considers the disposal of packaging materials.

# **Packaging**

These products are packaged with cardboard, paper, and plastic wrap. All of these materials are recyclable.

#### **Use Conditions**

For fine fire clay products, the majority of use phase impacts are the result of cleaning required to maintain the product over its stated reference service life. Operational water and energy use is only included for products that control the flow of water. The majority of vitreous and tub products do not control the flow of water, and therefore have no operational water or energy use impacts. The exception is for one-piece toilets with an integrated flushing system, which do have water and energy use impacts.

## **Environmental and Health During Use**

There is no harmful emissive potential. No damage to health or impairment is expected under normal use of the product.



#### **Essence Wall Mount Sinks**

Fine Fire Clay Sanitary Ceramic Wall Mount Sink





#### **Reference Service Life**

The Reference Service Life is determined by the guidance from the Product Category Rules and varies by product type. This specific product has a RSL of 20 years.

## **Extraordinary Effects**

#### Fire

No danger to the environment is anticipated during exposure to fire.

#### Water

No substances are used which have a negative impact on ecological water quality on contact by the product with water.

## **Mechanical Destruction**

No danger to the environment is anticipated during mechanical destruction.

#### Re-use Phase

Although it is possible to recycle these products at the end of life, it is not the typical disposal pathway.

## **Disposal**

Final product disposal is modeled as 100% to inert material landfill.

#### **Further Information**

LIXIL Water Technologies One Centennial Avenue Piscataway, NJ, 08854

# Life Cycle Assessment

#### **Functional Unit**

The declaration refers to the functional unit of 1 unit (or piece) of the Essence Wall Mount Sinks.

Name	Value	Unit
Functional unit	1	Piece
Mass	13.14	kg
Conversion factor to 1 kg	0.08	-
Flush rate	n/a	m <sup>3</sup> / sec
Flow rate	n/a	m <sup>3</sup> / sec



#### **Essence Wall Mount Sinks**

Fine Fire Clay Sanitary Ceramic Wall Mount Sink





## **System Boundary**

This is a cradle-to-grave Environmental Product Declaration. The following life cycle phases were considered:

Product Stage			age	Constr Proces	Use Stage					Er	nd of Li	fe Stag	e*	Benefits and Loads Beyond the System Boundaries			
Raw material		Transport	Manufacturing	Transport from gate to the site	Construction/ installation process	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	Deconstruction /demolition	Transport	Waste processing	Disposal	Reuse- Recovery- Recycling potential
	١1	A2	А3	A4	A5	B1	B2	В3	B4	B5	B6	В7	C1	C2	C3	C4	D
	X	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	MND

Description of the System Boundary Stages Corresponding to the PCR (X = Included; MND = Module Not Declared)

# **Estimates and Assumptions**

## Transport:

For materials and pre-products, the actual means of transport and distances, provided by the suppliers, were considered.

In the End of Life phase, all materials are assumed to be disposed of in a 100% inert material landfill.

# **Cut-off Rules**

In the assessment, all available data from the production process are considered, i.e. all raw materials used, auxiliary materials (e.g. lubricants), thermal energy consumption, and electric power consumption - including material and energy flows contributing less than 1% of mass or energy (if available). In case a specific flow contributing less than 1% in mass or energy is not available, worst case assumption proxies are selected to represent the respective environmental impacts. Impacts relating to the production of machines and facilities required during production are out of the scope of this assessment.

#### **Background data**

For life cycle modeling of the considered products, the SimaPro 9.1.1 software is used. Primary data was collected from the LIXIL-owned facilities. Secondary data was used for upstream raw material production and downstream inventory flows. This secondary data was sourced from either the Ecoinvent 3.5 or USLCI databases.

## **Data Quality**

The data sources used are complete and representative of North America in terms of the geographic and technological coverage and are a recent vintage (i.e. less than ten years old). The data used for primary data are based on direct information sources of the manufacturer. Secondary data sets were used for raw materials extraction and processing, end of life, transportation, and energy production flows. Wherever secondary data is used, the study adopts critically reviewed data for consistency, precision, and reproducibility to limit uncertainty.

#### **Period Under Review**

The period under review is the 2018 Fiscal Year.





<sup>\*</sup>This includes provision of all materials, products and energy, packaging processing and its transport, as well as waste processing up to the end-of waste state or disposal of final residues.

#### **Essence Wall Mount Sinks**

Fine Fire Clay Sanitary Ceramic Wall Mount Sink





#### **Allocation**

Allocation was determined on a mass basis.

# Comparability

A comparison or an evaluation of EPD data is only possible if all data sets to be compared were created according to EN 15804 and the building context, respectively the product-specific characteristics of performance, are taken into account. Environmental delarations from different programs may not be comparable. Full conformance with the selected PCR allows EPD comparability only when all stages of a product's life cycle have been considered. However, variations and deviations are possible.

# LCA: Modeling Scenarios and Additional Technical Information

The following technical information is a basis for the declared modules or can be used for developing specific scenarios in the context of a building assessment if modules are not declared. Any information omitted from the following scenario tables was done so intentionally as it was unrelated and had no presentable values.

Transport to Building Site (A4)								
Name	Value	Unit						
Liters of fuel	38	l/100km						
Transport distance	2696	km						
Capacity utilization (including empty runs)	90	%						
Gross density of products transported	-	kg/m <sup>3</sup>						
Capacity utilization volume factor	0.68	-						

Installation into the Building (A5)								
Name	Value	Unit						
Auxiliary materials	0.22	kg						
Water consumption	-	m <sup>3</sup>						
Other resources	-	kg						
Electricity consumption	-	kWh						
Other energy carriers	-	MJ						
Waster materials at construction site	1.80	kg						
Output substance (landfill)	1.44	kg						
Output substance (incineration)	0.36	kg						
Direct emissions to ambient air*, soil, and water	0.38	kg CO <sub>2</sub>						

<sup>\*</sup> CO 2 emissions to air from disposal of packaging

Maintenance (B2)							
Name	Value	Unit					
Information on maintenance	*	-					
Maintenance cycle	3650	Number / RSL					
Maintenance cycle	10038	Number / ESL					
Water consumption (from tap, to sewer)	2.0E-04	m <sup>3</sup>					
Auxiliary materials (cleaing agent)	18.25	kg					
Other resources	-	kg					
Electricity consumption	-	kWh					
Other energy carriers	-	MJ					
Material loss	-	kg					

<sup>\*</sup> Daily with 10ml of 1% sodium lauryl sulfate solution

Replacement (B4) / Refurbishment (B5)							
Name	Value	Unit					
Replacement cycle	-	Number / RSL					
Replacement cycle	2.8	Number / ESL					

Operational Enery Use (B6) and Water Use (B7)								
Name	Value	Unit						
Water consumption (from tap, to sewer)	-	m <sup>3</sup>						
Electricity consumption	-	kWh						
Other energy carriers	-	MJ						
Equipment output	-	kW						
Direct emissions to ambient air, soil, and water	-	kg						
Further assumptions	*	-						

<sup>\*</sup> No associated operational energy or water use

End of Life (C1 - C4)									
Name	Value	Unit							
Collected separately	-	kg							
Collected as mixed construction waste	13.14	kg							
Reuse	-	kg							
Recycling	-	kg							
Energy recovery	-	kg							
Landfilling	13.14	kg							



## **Essence Wall Mount Sinks**

Fine Fire Clay Sanitary Ceramic Wall Mount Sink





# LCA Results

Results shown below were calculated using TRACI 2.1 Methodology.

TRACI 2.1 Ir	RACI 2.1 Impact Assessment											
Parameter	Parameter	Unit	A1-A3	A4	A5	B2*	C1	C2	C3	C4		
GWP	Global warming potential	kg CO <sub>2</sub> -Eq.	2.9E+01	3.0E+00	2.1E+00	1.9E+00	0.0E+00	8.0E-02	0.0E+00	1.4E-01		
ODP	Depletion potential of the stratospheric ozone layer	kg CFC-11 Eq.	1.1E-06	1.1E-10	1.1E-07	1.8E-07	0.0E+00	3.4E-12	0.0E+00	4.6E-08		
AP Air	Acidification potential for air emissions	kg SO <sub>2</sub> -Eq.	1.9E-01	4.7E-02	1.3E-03	1.1E-02	0.0E+00	1.1E-03	0.0E+00	1.1E-03		
EP	Eutrophication potential	kg N-Eq.	1.0E-01	2.6E-03	1.1E-02	9.2E-03	0.0E+00	6.3E-05	0.0E+00	4.6E-04		
SP	Smog formation potential	kg O₃-Eq.	2.6E+00	1.4E+00	1.7E-02	1.1E-01	0.0E+00	2.7E-02	0.0E+00	2.5E-02		
FFD	Fossil fuel depletion	MJ-surplus	5.0E+01	5.4E+00	3.2E-01	3.3E+00	0.0E+00	1.6E-01	0.0E+00	4.2E-01		

<sup>\*</sup>All use phase stages have been considered, and only maintenance (B2) contains non-zero values, which are reported above. The remainder of use phase stages have values of zero.

Results shown below were calculated using CML 2001 - April 2013 Methodology.

CML 4.1 Impact Assessment										
Parameter	Parameter	Unit	A1-A3	A4	A5	B2*	C1	C2	C3	C4
GWP	Global warming potential kg CO <sub>2</sub> -Eq.		3.0E+01	3.0E+00	2.6E+00	1.9E+00	0.0E+00	8.0E-02	0.0E+00	1.4E-01
ODP	Depletion potential of the stratospheric ozone layer	kg CFC-11 Eq.	9.2E-07	1.1E-10	1.0E-07	1.5E-07	0.0E+00	3.3E-12	0.0E+00	3.4E-08
AP Air	Acidification potential for air emissions	kg SO₂-Eq.	1.8E-01	3.8E-02	1.1E-03	1.1E-02	0.0E+00	8.1E-04	0.0E+00	9.0E-04
EP	Eutrophication potential	kg(PO <sub>4</sub> ) <sup>3</sup> -Eq.	5.2E-02	7.2E-03	4.2E-03	4.7E-03	0.0E+00	1.8E-04	0.0E+00	2.9E-04
POCP	Formation potential of tropospheric ozone photochemical oxidants	kg ethane-Eq.	9.1E-03	9.5E-04	5.3E-04	7.0E-04	0.0E+00	-1.7E-04	0.0E+00	3.7E-05
ADPE	Abiotic depletion potential for non-fossil resources kg Sb-Eq.		1.2E-04	0.0E+00	2.1E-06	5.2E-05	0.0E+00	0.0E+00	0.0E+00	1.7E-06
ADPF	Abiotic depletion potential for fossil resources	MJ	3.9E+02	3.9E+01	2.9E+00	2.8E+01	0.0E+00	1.1E+00	0.0E+00	3.2E+00

<sup>\*</sup>All use phase stages have been considered, and only maintenance (B2) contains non-zero values, which are reported above. The remainder of use phase stages have values of zero.



## **Essence Wall Mount Sinks**

Fine Fire Clay Sanitary Ceramic Wall Mount Sink





Results below contain the resource use throughout the life cycle of the product.

Resource Use										
Parameter	Parameter	Unit	A1-A3	A4	A5	B2*	C1	C2	C3	C4
PERE	Renewable primary energy as energy carrier	MJ, lower calorific value	1.1E+01	0.0E+00	1.5E-01	7.0E-01	0.0E+00	0.0E+00	0.0E+00	4.0E-02
PERM	Renewable primary energy resources as material utilization	MJ, lower calorific value	5.9E+00	0.0E+00	1.1E-01	1.1E+01	0.0E+00	0.0E+00	0.0E+00	1.6E-02
PERT	Total use of renewable primary energy resources	MJ, lower calorific value	1.6E+01	0.0E+00	2.6E-01	1.2E+01	0.0E+00	0.0E+00	0.0E+00	5.6E-02
PENRE	Nonrenewable primary energy as energy carrier	MJ, lower calorific value	4.3E+02	4.1E+01	3.4E+00	3.3E+01	0.0E+00	1.2E+00	0.0E+00	3.5E+00
PENRM	Nonrenewable primary energy as material utilization	MJ, lower calorific value	0.0E+00							
PENRT	Total use of nonrenewable primary energy resources	MJ, lower calorific value	4.3E+02	4.1E+01	3.4E+00	3.3E+01	0.0E+00	1.2E+00	0.0E+00	3.5E+00
SM	Use of secondary material	MJ, lower calorific value	0.0E+00							
RSF	Use of renewable secondary fuels  MJ, lower calorific value		0.0E+00							
NRSF	Use of nonrenewable secondary MJ, lower calorific value		0.0E+00							
FW	W Use of net fresh water m³ 3.4E+00 0.0E+00 5.1E-03 1.3E-01 0.0E		0.0E+00	0.0E+00	0.0E+00	2.4E-03				

<sup>\*</sup>All use phase stages have been considered, and only maintenance (B2) contains non-zero values, which are reported above. The remainder of use phase stages have values of zero.

Results below contain the output flows and wastes throughout the life cycle of the product.

Output Flows and Waste Categories										
Parameter	Parameter Parameter		A1-A3	A4	A5	B2*	C1	C2	C3	C4
HWD	Hazardous waste disposed	kg	3.8E-04	0.0E+00	2.2E-06	2.7E-05	0.0E+00	0.0E+00	0.0E+00	4.9E-06
NHWD	Non-hazardous waste disposed	kg	8.2E+00	0.0E+00	1.6E+00	2.5E-01	0.0E+00	0.0E+00	0.0E+00	1.3E+01
RWD	Radioactive waste disposed	kg	1.5E-04	0.0E+00	6.3E-06	4.1E-05	0.0E+00	0.0E+00	0.0E+00	2.0E-05
CRU	Components for re-use	kg	0.0E+00							
MFR	Materials for recycling	kg	2.3E+00	0.0E+00						
MER	Materials for energy recovery	kg	0.0E+00							
EEE	Exported electrical energy	MJ	0.0E+00							
EEE Exported thermal energy MJ		MJ	0.0E+00							

<sup>\*</sup>All use phase stages have been considered, and only maintenance (B2) contains non-zero values, which are reported above. The remainder of use phase stages have values of zero.



#### **Essence Wall Mount Sinks**

Fine Fire Clay Sanitary Ceramic Wall Mount Sink





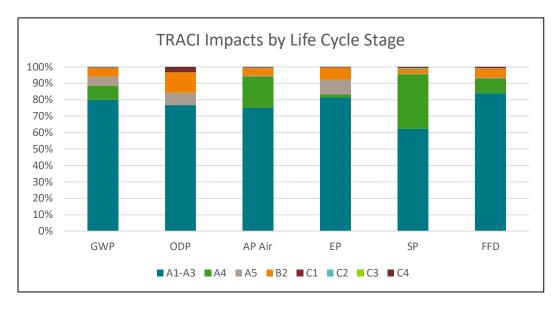
Results below contain direct greenhouse gas emissions and removals throughout the life cycle of the product.

Resource Use										
Parameter	Parameter	Unit	A1-A3	A4	A5	B2*	C1	C2	C3	C4
BCRP	Biogenic Carbon Removal from Product	MJ, lower calorific value	0.0E+00							
BCEP	Biogenic Carbon Emissions from Product	MJ, lower calorific value	0.0E+00							
BCRK	Biogenic Carbon Removal from Packaging	MJ, lower calorific value	3.8E-01	0.0E+00						
BCEK	Biogenic Carbon Emissions from Packaging	MJ, lower calorific value	0.0E+00	0.0E+00	3.8E-01	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
BCEW	Biogenic Cabron Emissions from Combustion of Waste from Renewable Sources Used in Production Process	MJ, lower calorific value	0.0E+00							
CCE	Calcination Carbon Emissions MJ, lower calorific value		0.0E+00							
CCR	Carbonation Carbon Removal	MJ, lower calorific value	0.0E+00							
CWNR I		MJ, lower calorific value	0.0E+00							

<sup>\*</sup>All use phase stages have been considered, and only maintenance (B2) contains non-zero values, which are reported above. The remainder of use phase stages have values of zero.

# Interpretation

The production (A1-A3) life cycle stages drive the results in all impact categories, with the exception of the ozone depletion category, which is driven primarily by the maintenance (B2) phase. Within the production phase, raw materials and energy used in the production process drive the impacts. Maintenance is generally the second most impactful life cycle stage.





## **Essence Wall Mount Sinks**

Fine Fire Clay Sanitary Ceramic Wall Mount Sink





# References

•	PCR Part A	UL Environment and Institut Bauen und Umwelt e.V., Königswinter (pub.): Product Category Rules for Construction Products from the range of Environmental Product Declarations of Institut Bauen und Umwelt (IBU), Part A: Calculation Rules for the Life Cycle Assessment and Requirements on the Background Report. July 2014, version 1.3.
•	PCR Part B	UL Environment and Institut Bauen und Umwelt e.V., Königswinter (pub.): Product Category Rules for Sanitary Ceramics. Version January 2018.
•	ISO 14025	ISO 14025:2011-10, Environmental labels and declarations — Type III environmental declarations — Principles and procedures.
•	ISO 14040	ISO 14040:2009-11, Environmental management — Life cycle assessment — Principles and framework.
•	ISO 14044	ISO 14044:2006-10, Environmental management — Life cycle assessment — Requirements and guidelines.
•	EN 15804	EN 15804:2012-04: Sustainability of construction works — Environmental Product Declarations — Core rules for the product category of construction product.
•	TRACI 2.1	US EPA, Tool for the Reduction and Assessment of Chemical and Other Environmental Impacts (TRACI).
•	CML 2001	Center of Environmental Science of Leiden University impact categories and characterisation methods for impact assessment (CML).
•	SimaPro 9.1.1	PRé Consultants. SimaPro Life Cycle Assessment version 9.1.1 (software).
•	ISO 21930:2017	ISO 21930:2017(E), Sustainability in buildings and civil engineering works - Core rules for environmental product declarations of construction products and services

# **Contact Information**

# **Study Commissioner**



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## **LCA Practitioner**



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