

Environmental Product Declaration



In accordance with ISO 14025 and EN 15804:2012+A2:2019 for:

Neolith® Stone Surfaces

from

THE SIZE Surfaces Polígono Industrial Camí Fondo, Supoi 8. C/ Ibers 31, 12550 Almazora, (Castellón).

THEsize[®]
SURFACES

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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



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General information

Programme information

Programme:	The International EPD [®] System
Address:	EPD International AB Box 210 60 SE-100 31 Stockholm Sweden
Website:	www.environdec.com
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CEN standard EN 15804 serves as the Core Product Category Rules (PCR)
Product category rules (PCR): <i>PCR 2019:14 Construction Products (EN 15804: A2), version 1.11</i>
PCR review was conducted by: <i>El Comité Técnico del Sistema Internacional EPD[®]. Presidente: Claudia A. Peña. Contact via info@environdec.com</i>
Independent third-party verification of the declaration and data, according to ISO 14025:2006: <input type="checkbox"/> EPD process certification <input checked="" type="checkbox"/> EPD verification
Third party verifier: Tecnalía Certificación S.L. <i>In case of accredited certification bodies:</i> Accredited by: ENAC. Accreditation no.125/C-PR283 Name of verifier: Cristina Gazulla
Procedure for follow-up of data during EPD validity involves third party verifier: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

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

EPDs within the same product category but from different programmes may not be comparable. EPDs of construction products may not be comparable if they do not comply with EN 15804. For further information about comparability, see EN 15804 and ISO 14025.

Company information

Owner of the EPD: TheSize Surfaces®

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<https://www.neolith.com/>

Description of the organisation: Founded in 2009, TheSize Surfaces is a young global company that has revolutionized the surface industry, offering a new product category at the forefront of the industry.

In 2010, the first table under the Neolith® brand was launched with the aim of providing an innovative response to the architecture and interior design sector. A new material with extraordinary characteristics, suitable for both indoor and outdoor use.

Neolith® is currently the leading brand of Sintered Stone and is present in more than 90 markets through a wide commercial network, various distribution centers, showrooms, and also in thousands of outlets around the world. The head offices are located in Almassora (Castellón), where also located the production plant.

Regarding environmental matters, since the beginning the brand has advocated sustainable practices, increasing year after year investment in innovation to overcome the limits of green manufacturing.

In addition, Neolith® consolidates its firm commitment to improve sustainability through circular economy initiatives to which the new 90R formulation is now added.

Product-related or management system-related certifications:

- Greenguard Certification (previously known as GREENGUARD Indoor Air Quality Certification)
- Greenguard Gold Certification (known previously as GREENGUARD Children & Schools Certification)
- EC Certification (European Commission)
- ISO 14001 Environmental Management Certification
- ISO 9001 Quality Management Certification

Moreover, Neolith®'s sintered Stone surfaces are produced in accordance with the following standards:

- UNE-EN ISO 10545 Ceramic tiles
- UNE-EN 14411:2004 Ceramic tiles - Definitions, classification, characteristics and marking (ISO 13006:1998, modified)

Name and location of production site(s): Polígono Industrial Camí Fondo, Supoi 8. C/lbers 31, 12550 Almazora, (Castellón)

Product information

Product name: This EPD® represents the product "Neolith ® sintered stone surface" under different commercialized finishing and thickness references of 3 mm, 6 mm, 12 mm and 20 mm.

Product identification: as Neolith's sintered stone product is very versatile and customizable, it is not restricted with "models": the cutting formats of the sintered stone are made to measure and customized according to the client's need. All aspects related to thickness range, cutting format, texture and finishes of the product have been taken into account in the elaboration of this EPD, covering all the architecture possibilities such as façades, finishing, walls, countertops, etc..

UN CPC code: 376 per description of Monumental or building stone and articles thereof.

Product description: Born in the last decade, Sintered Neolith stone is part of a revolutionary product category to respond to the most demanding architectural and design needs. It does not belong to what is known as traditional ceramic or porcelain, rather it has led them to evolve to the point of creating a new type of surface that had not exist until then. Neolith is a revolutionary and highly versatile product, perfect for any indoor or outdoor home application, from kitchen or bathroom countertops, to floors, walls, furniture, or facades. It is innovative, elegant, sustainable, resistant, and ultra-hygienic. It is also available in different types of finishing according to the client's needs, which can be silky, satin, rough, polished and shiny, and in a wide range of colours.

Neolith products are non-porous natural stone boards used in architectural and decorative establishments.

Neolith® is a Sintered Stone. A 100% natural material with a base composed of granite and glass minerals, and natural oxides:

1. Granite materials: provide hardness and strength to the surface
2. Glass minerals: guarantee chemical stability
3. Natural oxides: offer chromatic properties

By combining high-definition decoration with high-performance qualities, Neolith® offers the triple guarantee of strength, aesthetics and longevity.

A series of technical and physical characteristics of the product by type of finishing, are presented below:

TEST	NORM	Unit	Satin	Silk	Polished	Riverw.
Moisture Expansion	ISO 10545-10	mm/m	< 0,1	< 0,1	< 0,1	< 0,1
Linear thermal expansion	ISO 10545-8	10-6 °C	5,7	5,7	5,7	5,7
Water absorption	ISO 10545-3	%	≤ 0,5	≤ 0,5	≤ 0,5	≤ 0,5
Thermal Shock resistance	ISO 10545-9	-	No damage	No damage	No damage	No damage
Chemical resistance, cleaning products	ISO 10545-13	Class	UA	GA	GA	GA
Chemical resistance, salts	ISO 10545-13	Class	UA	GA	GA	GA
Chemical resistance, acids, and bases	ISO 10545-13	Class	ULA	GLA	GLB	GLA
Chemical resistance, high acid and base concentrations	ISO 10545-13	Class	UHA	GHA	GHB	GHA
Visible abrasion	ISO 10545-7	Class	PEI III	PEI II	PEI I	PEI II
Deep abrasion	ISO 10545-6	mm3	130	-	-	-
Stain resistance	ISO 10545-14	Class	5	5	5	5
Lead release	ISO 10545-15	mg/dm3	< 0,01	< 0,01	< 0,01	< 0,01
Cadmium release	ISO 10545-15	mg/dm3	< 0,001	< 0,001	< 0,001	< 0,001

Neolith products can be manufactured customizing to the client's needs, with a fiberglass that reinforces the structure of the product. The added mesh is associated with a consumption of polyurethane resin and fiberglass. The difference in impacts between products with and without mesh is less than 10%, so the results presented in this EPD are valid for both types of products.

The product is marketed with 4 different thicknesses with the same composition and the production process. The thicknesses and their weights per m² are, respectively: 3mm and 7,2kg/m², 6mm and 14,4kg/m², 12mm and 28,8kg/m², 20mm and 48kg/m².

This EPD refers to the average product (in terms of composition, further details in [Content Information](#)).

LCA information

Declared unit: The declared unit is that quantification of a function offered by the object of study according to which all the inputs (resources and necessary energy) and outputs (emissions and waste) of the studied system will be referred.

In this case, the manufacture, distribution, installation, use and end of life of **one kilogram (1 kg) of the Neolith® product** has been selected as the Declared Unit.

There are four reasons for the selection of this declared unit instead of functional unit:

- The product is manufactured with the same process, in different thicknesses and is marketed in many forms and applications.
- The production in the "kiln" is considered in mass (kg). At the same time, the Department of the Environment uses mass as the main indicator of the product.
- There are EPDs of competitors with this same declared unit published.
- There is not a complementary PCR for this type of product, so according to PCR 2019:14, the declared unit must be used.

Reference service life: estimated to be 25 years based on properties tests and the quality guarantee offered to the customer.

Time and geographic representativeness: The primary data used has been obtained from the Neolith production plants for the year 2020 and is representative for the product, as well as the production processes.

This document will be used for B2B communication, with a global scope.

Data quality: Primary data are the amounts of matter and energy used during the life cycle of the product. These data have been provided by Neolith®, referring to the year 2020, and comes from direct factory data.

Secondary data was obtained from the Ecoinvent 3.6 database of recognized international prestige.

The treatment and processing of the data has been carried out according to the international standards ISO 14025, ISOs 14040 and 14044 for the preparation of life cycle analysis and inventories, selecting the characterization factors established in the UNE 15804: 2012+ A2: 2019.

The geographic scope of the EPD is global.

Annex II demonstrates the data quality matrix associated with the inventory processes.

Database(s) and LCA software used: The Simapro 9.2 calculation software and the Ecoinvent 3.6 database were used for the development of this study.

Description of system boundaries: The presented EPD® is structured by the life cycle stages established according to the PCR 2019: 14 reference standards for construction products, basing on UNE 15804 standard. This EPD® is from cradle to grave with module D (A + B + C) + D.

The life cycle stages analyzed are described below:

A1- Supply of raw materials

This module takes into account the extraction and processing of the raw materials that make up the product. The generation of the energy consumed in module A3 during the manufacture of the product is also assigned to this module.

The electrical energy consumed in the production plant is of 100% renewable origin, produced entirely by photovoltaic solar energy.

A2- Transportation of raw materials

This module includes the transport of the different raw materials from their providers to the factory where the final product is made (in Almassora, Castellón). The distance and specific truck type have been taken into account for each raw material.

A3- Manufacturing

This module includes the consumption of fuels (burning diesel and natural gas), additives and packaging materials used during the manufacturing process of NEOLITH® Synthetic Stone. At the same time, factory emissions not originated in the combustion of fossil fuels are analyzed, as well as the transport and management of waste originated in the plant (together with production losses, managed externally to the production center). The consumption of auxiliary materials for production is also considered, such as the reinforced mesh made of resin and fiberglass that certain Neolith products incorporate.

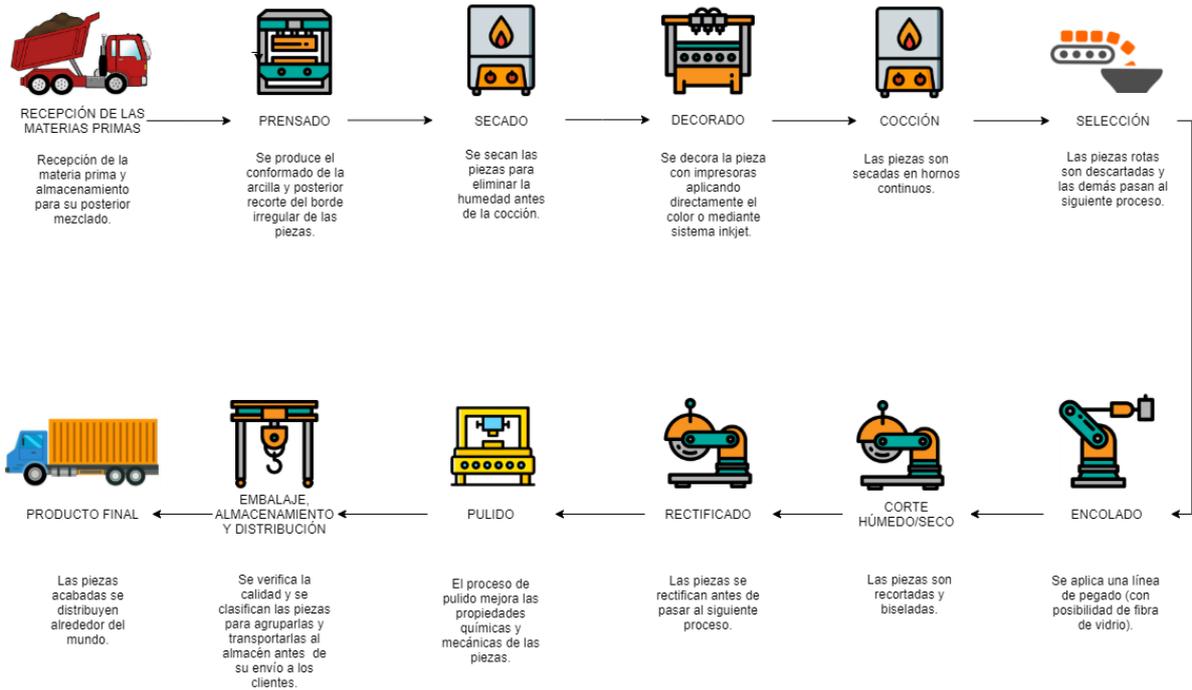
The primary data used have been obtained from the production plant itself and are representative of the production of the Neolith product for the year 2020.

As mentioned, Neolith products can be produced, according to customer needs, with a mesh that offers greater structural strength. The results obtained for the life cycle of the Neolith product with and without mesh differ less than 10% for the climate change category and are therefore representative of the product.

During the product stage A1-A3, a 15% loss is estimated. These only affect the consumption of raw materials and not the consumption of energy, since the latter is the factory's average, therefore, it already includes the reintroduction of energy losses to the production system.

The production process is described below:

DIAGRAMA DEL PROCESO DE PRODUCCIÓN



A4-A5 Construction Stage

The Construction Stage is made up of modules A4 Transportation and A5 Construction – Installation Process.

The A4 Transportation module includes the transportation of finished and packaged products from the factory gate to the construction site for their subsequent installation. In the global distribution, there are two means of transport: truck and ship.

A weighted average of the mileage associated with the Neolith product has been considered based on its sales during 2020. For transportation by ship, all the associated transportation steps have been considered, such as the distance by truck from the production center to the port of departure, actual transport by ship and a truck transport from the port of arrival to a final distribution point.

PARAMETER	VALUE EXPRESSED PER DECLARED UNIT
Type and fuel consumption of the vehicle, type of vehicles used for the transport; for example, trucks for long distance, boat, etc.	<ul style="list-style-type: none"> • "Transport truck 32 t EURO 5". Diesel consumption: 0,0165 kg/tkm • "Transoceanic container ship". Heavy fuel oil consumption: 0,00102 kg/tkm"
Distance	<ul style="list-style-type: none"> • Km by truck: 650 • Km by ship: 4.354
Capacity utilization (including empty return trip)	100% volumn (round trip)
Apparent density	2.400 kg/m3
Useful capacity factor	1

Module A5 Installation process includes all materials and energy used to prepare the product for use. At the same time, the transport and management of packaging waste and its transport to a waste manager are taken into account.

In this case, all the installation scenarios have been considered according to the available applications of the Neolith[®] boards to know their potential impacts and choose the most representative scenario. According to data from Neolith's Department of Management Control, the majority (81,58%) of the products sold are destined to be countertops and other types of horizontal installation, in which the whole Neolith[®] board put in place manually and the use of energy or auxiliary materials is not necessary. For the façade (vertical) application, it is necessary to use a mortar adhesive, fixation elements made of recycled aluminum and electricity consumption for a drill; being only 5,71% applicable, these consumptions represent less than 1% of the total impact of the entire life cycle of the product. The remaining 12,72% is registered as "other applications" without concrete specification of installing direction nor use of the product. In this way, the horizontal manual installation scenario has been chosen as representable.

In case cutting has to take place, these are estimated to be less than 1%. In this stage, 0% of losses are considered, because these are reused in-situ.

It should be taken into account that the potential environmental impact of this stage is not null because it involves the management of packaging waste. An estimated 4% of the wooden easels are returned to the factory for reuse.

PARAMETER	DESCRIPTION	VALUE
Auxiliary materials	kg	0
Use of water	m3	0
Use of other resources	Not applicable	0
Quantitative description of the type and consumption of energy during the preparation and installation process.	Not applicable	0
Direct emissions to soil, water or air	kg	0
Waste materials on site, before waste processing, generated by the installation of the product; specified by type	Installation losses	0%
	Easel (packaging)	0,032kg of wood and 0,008kg of aluminum
Output materials (specified by type) as a result of waste processing on site, eg. Eg collection for recycling, energy recovery, disposal; specified by path	Recycling of all packaging components and reuse of wooden stands	96% and 4%, respectively

B1-B7 Use stage

Neolith synthetic stone requires a low level of maintenance (B2), since, depending on some specific applications, it is only necessary to use a neutral liquid soap for cleaning. This consumption has been excluded because it is subjective to each user. The phases that involve the direct use of the product (B1) and the use of energy in service (B6 and B7) have a value of 0, as Neolith sintered stone is a passive material in construction.

The technical properties of the product (hardness, resistance to scratching, abrasion or stains ...) make the repair, replacement, or rehabilitation of Neolith[®] unnecessary, therefore phases B1 to B7 have a value of 0.

C1-C4 End of life stage

At this stage, two common scenarios are considered: manual dismantling (50%) and joint demolition with the building (50%). In the first case, the use of energy and auxiliary materials is not necessary. In the second case, the potential impact of the demolition of the product on the overall demolition of a building is considered negligible. Therefore, C1 is considered to be null.

The impact relative to the joint demolition of 50% of the installed product through the use of demolition machinery has been calculated. The increase in environmental impact throughout the life cycle when considering this type of demolition does not exceed 0,25% of any impact category. Being less than 1%, it is negligible and therefore outside of scope of the study.

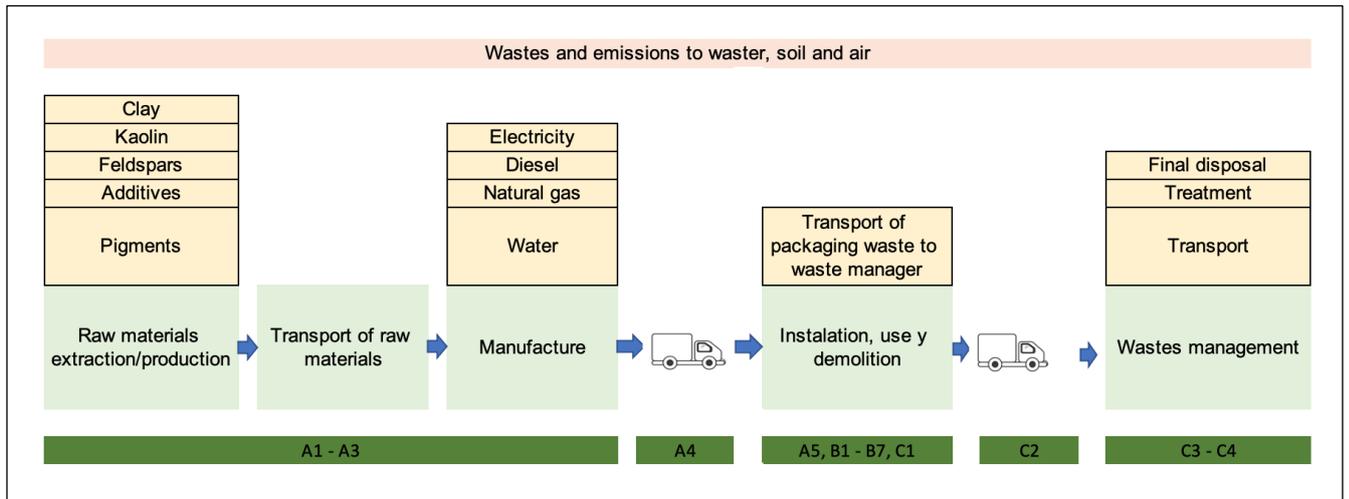
Regarding the management of the product after the end of its useful life, it is considered an inert product before and after its management as waste, which will be sent to landfill along with other demolition waste.

Module	Parameter	Unit (per declared unit)	Value
C1 Deconstruction	Process of collection specified by type	Kg collected in a separate	0
		Kg collected mixed with waste from construction	1 kg
C2 Transport	Type and fuel consumption of the vehicle, type of vehicles used for the transport	Truck of transport > 32 t EURO 5	Diesel consumption : 0,0165 kg/tkm
	Distance	km	50
	Use of the capacity (including the return in vacuum)	%	100% volume (round trip)
	Apparent density of transported products	Kg / m3	2.400
	Useful capacity factor		1
C3 Treatment of waste	System recovery specified by type	Kg for reuse	0
		Kg for reuse	0
		Kg for energy recovery	0
		Kg for energy recovery	0
C4 Disposal	Disposal specified by type	Kg of product for final deposition	1

D Reuse, recovery and recycling potential stage

This product does not claim environmental benefits due to recycling and/or reuse, since the entire product is disposed of in a controlled landfill.

System diagram:



More information: <https://www.neolith.com/>

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

	Product Stage			Construction stage		Use stage							End-of-life stage				Benefits	
	Raw materials	Transport	Manufacturing	Transport	Installation/construction	Use	Maintenance	Reparation	Replacement	Rehabilitation	Energy use	Water use	Deconstruction-demolition	Transport	Waste treatment	Waste elimination		
Module	A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D	
Declared module	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Geography	GLO	GLO	ES	GLO	GLO	GL O	GL O	GL O	GL O	GL O	GL O	GL O	GL O	GL O	GL O	GL O	GL O	GLO
Specific data	>95% GWP-GHG					-	-	-	-	-	-	-	-	-	-	-	-	-
Product variation	The variation of declared impacts is less than 10% for each product group					-	-	-	-	-	-	-	-	-	-	-	-	-
Site variation	Manufactured in one production plant			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Additional information

- Technical support for the implementation of the EPD: Marcel Gómez Consultoría Ambiental.
- The electricity mix used in the manufacturing plant is 100% certified renewable of photovoltaic origin.
- Allocation processes: Wherever possible, allocation has been avoided, but for energy consumption, waste production and distribution an allocation had to be made based on physical mass considerations.
- Cut-off rules and considerations:
 - The following processes have been excluded:
 - Manufacture of equipment used in production, in buildings or any other capital good
 - Transportation of personnel to the plant
 - Transportation of personnel within the plant
 - Research and development activities
 - Long-term emissions
 - The principle of modularity has been followed, as well as the polluter-payer principle.
 - 95% of all the mass and energy inputs and outputs of the central system have been included, identified in the life cycle inventory included in this report and at least 99% for the total life cycle.
 - The consumption of materials and energy in the installation (A5) and the energy consumption in the demolition (C1) are excluded, as it has previously been justified that they are negligible (impacts less than 1%).
 - Regarding the raw materials, an average of the composition range that can characterize the Neolith product has been represented.
- Calculation methodologies: to obtain the results in accordance with the provisions of UNE 15804 + A2, the “EF method”, “EDIP” and “CED” methodologies have been used for environmental impacts, waste generation and energy consumption, respectively.
- The scenarios included are currently in use and are representative of one of the most likely alternatives for the product under review.
- Starting in 2021, Neolith's production center incorporates internal rejection recovery equipment from the production plant, thus reducing waste generated in the plant and treated externally. This EPD does not take this activity into account, since the data used is from 2020.

Content information

As mentioned, Neolith sintered stone can have a variable composition range. Below, the composition range presented by the Neolith product is shown. For its representation in the calculation model, an average product has been remodelled at the composition level, based on the contribution to the environmental impact of the different raw materials.

The determination of the average composition has been carried out through a sensitivity analysis to see which raw materials have a higher impact by varying the potential composition of those raw materials that have a greater contribution to the environmental impact of the product.

From the results of the sensitivity analysis, the average composition is represented by the average of the scenarios with the lowest and highest environmental impact for the consumption of raw materials:

Product components	Weight, kg	Post-consumer material, weight-%	Renewable material, weight-%
Clay	4-37%	0	0
Kaolin	<29%	0	0
Feldspars	47-58%	0	0
Additives	4-20%	0	0
Pigments	3-4%	0	0
TOTAL	100%	0	0
Packaging materials	Weight, kg	Weight-% (versus the product)	Post-consumer material, weight-%
Wooden base and dowels	0,032	3%	0
Metal structure	0,008	< 0,8%	0
TOTAL	0,004		

The product does not include in its life cycle any dangerous substances included in the "Very High Impact Candidate List for Authorization (SVHC)" in a percentage greater than 0.1% of the weight of the product.

Environmental Information

Potential environmental impact – mandatory indicators according to EN 15804

These results are valid for the functional unit of 1 kg of Neolith sintered stone surface with and without mesh

Estimated impact results are only relative statements that do not indicate impact category endpoints, exceeding threshold values, safety margins, or risks.

Results per declared unit																
Indicator	Unit	Tot.A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
GWP-total	kg CO ₂ eq.	1,62E+00	8,50E-02	3,05E-02	0	0	0	0	0	0	0	0	8,34E-03	0	2,53E-03	0
GWP-fossil	kg CO ₂ eq.	1,69E+00	8,49E-02	6,62E-04	0	0	0	0	0	0	0	0	8,33E-03	0	2,52E-03	0
GWP-biogenic	kg CO ₂ eq.	-6,65E-02	3,79E-05	2,98E-02	0	0	0	0	0	0	0	0	4,45E-06	0	8,33E-06	0
GWP-luluc	kg CO ₂ eq.	1,12E-03	7,58E-07	1,03E-07	0	0	0	0	0	0	0	0	2,91E-06	0	6,16E-08	0
ODP	kg CFC 11 eq.	2,52E-07	1,87E-08	1,08E-10	0	0	0	0	0	0	0	0	1,89E-09	0	5,27E-10	0
AP	mol H ⁺ eq.	9,77E-03	1,47E-03	5,40E-06	0	0	0	0	0	0	0	0	3,41E-05	0	2,60E-05	0
EP-freshwater	kg PO ₄ ³⁻ eq.	1,33E-04	1,72E-07	1,82E-08	0	0	0	0	0	0	0	0	2,01E-07	0	2,83E-08	0
EP-freshwater	kg P eq.	4,35E-05	5,59E-08	5,93E-09	0	0	0	0	0	0	0	0	6,54E-08	0	9,20E-09	0
EP-marine	kg N eq.	1,21E-03	3,74E-04	2,62E-06	0	0	0	0	0	0	0	0	1,01E-05	0	1,13E-05	0
EP-terrestrial	mol N eq.	1,31E-02	4,15E-03	2,52E-05	0	0	0	0	0	0	0	0	1,12E-04	0	1,24E-04	0
POCP	kg NMVOC eq.	4,12E-03	1,07E-03	7,09E-06	0	0	0	0	0	0	0	0	3,42E-05	0	3,45E-05	0
ADP-minerals&metals*	kg Sb eq.	4,82E-05	4,15E-09	1,74E-09	0	0	0	0	0	0	0	0	2,26E-07	0	1,05E-09	0
ADP-fossil*	MJ	2,20E+01	1,14E+00	7,88E-03	0	0	0	0	0	0	0	0	1,26E-01	0	3,36E-02	0
WDP	m ³	7,51E-01	-2,58E-04	-2,39E-04	0	0	0	0	0	0	0	0	3,50E-04	0	1,16E-05	0
Acronyms	GWP-fossil = Global Warming Potential fossil fuels; GWP-biogenic = Global Warming Potential biogenic; GWP-luluc = 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; WDP = 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.

Potential environmental impact – additional mandatory and voluntary indicators

Results per declared unit																
Indicator	Unit	Tot.A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
GWP-GHG ¹	kg CO ₂ eq.	1,65E+00	8,44E-02	1,78E-03	0	0	0	0	0	0	0	0	8,26E-03	0	2,48E-03	0

Use of resources

Results per declared unit																
Indicator	Unit	Tot.A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
PERE	MJ	2,02E+00	1,57E-03	9,42E-05	0	0	0	0	0	0	0	0	1,77E-03	0	1,27E-04	0
PERM	MJ	6,40E-01	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PERT	MJ	2,66E+00	1,57E-03	9,42E-05	0	0	0	0	0	0	0	0	1,77E-03	0	1,27E-04	0
PENRE	MJ	2,39E+01	1,21E+00	8,43E-03	0	0	0	0	0	0	0	0	1,33E-01	0	3,57E-02	0
PENRM	MJ.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PENRT	MJ	2,39E+01	1,21E+00	8,43E-03	0	0	0	0	0	0	0	0	1,33E-01	0	3,57E-02	0
SM	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NRSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FW	m ³	1,97E-02	2,53E-06	-4,44E-06	0	0	0	0	0	0	0	0	1,32E-05	0	6,85E-07	0
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 re-sources; SM = Use of secondary material; RSF = Use of renewable secondary fuels; NRSF = Use of non-renewable secondary fuels; FW = Use of net fresh water															

¹ The indicator includes all greenhouse gases included in GWP-total but excludes biogenic carbon dioxide uptake and emissions and biogenic carbon stored in the product. This indicator is thus almost equal to the GWP indicator originally defined in EN 15804:2012+A1:2013.

Waste production and output flows

Waste production

Results per declared unit																
Indicator	Unit	Tot.A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Hazardous waste disposed	kg	6,85E-05	2,01E-06	1,72E-08	0	0	0	0	0	0	0	0	3,29E-07	0	8,46E-08	0
Non-hazardous waste disposed	kg	5,15E-01	5,12E-05	9,81E-03	0	0	0	0	0	0	0	0	6,01E-03	0	9,99E-01	0
Radioactive waste disposed	kg	3,94E-05	8,27E-06	4,40E-08	0	0	0	0	0	0	0	0	8,57E-07	0	2,33E-07	0

Output flows

Results per declared unit																
Indicator	Unit	Tot.A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Components for re-use	kg	<0,2	0	1,6E-4	0	0	0	0	0	0	0	0	0	0	0	0
Material for recycling	kg	0	0	3,84E-3	0	0	0	0	0	0	0	0	0	0	0	0
Materials for energy recovery	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Exported energy, electricity	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Exported energy, thermal	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Information on biogenic carbon content

Results per functional or declared unit		
BIogenic CARBON CONTENT	Unit	QUANTITY
Biogenic carbon content in product	kg C	0
Biogenic carbon content in packaging	kg C	0,06

Note: 1 kg biogenic carbon is equivalent to 44/12 kg CO₂.

Information related to Sector EPD

This EPD[®] is individual.

References

- General Programme Instructions of the International EPD[®] System. Version 3.01
- ISO 14020: 2000 Environmental labels and declarations — General principles
- ISO 14025: 2010 Environmental labels and declarations – Type III environmental declarations – Principles and procedures
- ISO 14040: 2006 Environmental management — Life cycle assessment — Principles and framework
- ISO 14044: 2006 Environmental management — Life cycle assessment — Requirements and guidelines
- PCR 2019:14 Construction products (EN 15804: A2) version 1.11
- EN 15804: 2012 + A2: 2019 Sustainability of construction works – Environmental product declarations – Core rules for the product category of construction products
- Marcel Gómez Consultoría Ambiental (2021). Memoria del Análisis del Ciclo de Vida del producto Neolith v4, febrero 2022

Annex 1. Conversion factors for Environmental Performance of different product references according to their thickness

	R1	R2	R3	R4
Thickness (mm)	3	6	12	20
Thickness (m)	0,003	0,006	0,012	0,02
Density (kg/m3)	2400	2400	2400	2400
Conversion factor: kg/m2	7,2	14,4	28,8	48

The conversion factors shown in this table can be used to convert the values of the results of the environmental performance of the average product in the Environmental Information section for the declared unit of 1 kg of Neolith sintered stone surface product to their corresponding values for the unit of one square meter (1 m²), according to the four thicknesses available in the market, by multiplying them with these factors in bold. In this way, the understanding of the potential impacts of the product is facilitated, promoting the principles of quality and transparency.

Annex 2. Data quality matrix

The table below presents an estimation of the quality of the data used according to three aspects: temporal, technological and geographical. To quantify the average of said quality, the following scale is assigned to each element of material/ process during the life cycle of the product: 1-very bad, 2-bad, 3-average, 4-good and 5-very good. The methodology established in the reference PCR and UNE 15804 + A2 has been followed.

The temporal, technological y geographical aspects in this case have the following values 4,6; 4,2 and 3,4 respectively. Therefore, the data quality is reflected as good.

Data quality average value	Temporal	Technological	Geographical
	4,6	4,2	3,4

VERIFICATION STATEMENT CERTIFICATE CERTIFICADO DE DECLARACIÓN DE VERIFICACIÓN

Certificate No. / Certificado nº: EPD06101

TECNALIA R&I CERTIFICACION S.L., confirms that independent third-party verification has been conducted of the Environmental Product Declaration (EPD) on behalf of:

TECNALIA R&I CERTIFICACION S.L., confirma que se ha realizado verificación de tercera parte independiente de la Declaración Ambiental de Producto (DAP) en nombre de:

THESIZE SURFACES, S.L.
P.I. Camí Fondo, Supoi 8, C/ Dels Ibers 31
12550 - ALMASSORA (Castellón) - SPAIN

for the following product(s):
para el siguiente(s) producto(s):

NEOLITH® SINTERED STONE SURFACE
SUPERFICIE DE PIEDRA SINTERIZADA NEOLITH®

with registration number **S-P-04941** in the International EPD® System (www.environdec.com)
con número de registro **S-P-04941** en el Sistema Internacional EPD® (www.environdec.com)

it's in conformity with:
es conforme con:

- **ISO 14025:2010 Environmental labels and declarations. Type III environmental declarations.**
- **General Programme Instructions for the International EPD® System v.3.01.**
- **PCR 2019:14 Construction products (EN 15804:A2) version 1.11.**
- **UN CPC 376 Monumental or building stone and articles thereof.**

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Serial N° / N° Serie: EPD0610100-E



Carlos Nazabal Alsua
Manager

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