

ENVIRONMENTAL PRODUCT DECLARATION

IN ACCORDANCE WITH ISO 14025 AND EN 15804 FOR:

GLASS MOSAIC TILE

FROM VIDREPUR.S.A


Programme:	The International EPD® System, www.environdec.com
Programme operator:	EPD International AB
EPD registration number:	S-P-03607
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VIDREPUR



Programme	<p>The International EPD® System</p> <p>EPD International AB Box 210 60 SE-100 31 Stockholm Sweden</p> <p>www.environdec.com info@environdec.com</p>
<p>Product category rules (PCR): CEN standard EN 15804 served as the core PCR. Construction products and construction services, 2012:01, version 2.33 valid until 2021-12-31</p>	
<p>PCR review was conducted by: The Technical Committee of the International EPD®System. Chair: Massimo Marino. Contact via "mailto:info@environdec.com" info@environdec.com</p>	
<p>Independent third-party verification of the declaration and data, according to ISO 14025:2006:</p> <p><input type="checkbox"/> EPD process certification <input checked="" type="checkbox"/> EPD verification</p>	
<p>Third party verifier: Marcel Gómez Ferrer, Marcel Gómez Consultoría Ambiental, info@marcelgomez.com</p> <p>Approved by: The International EPD® System</p>	
<p>Procedure for follow-up of data during EPD validity involves third party verifier:</p> <p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	
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<p>EPD developer: SGS TECNOS S.A.U</p> <div></div>	

OWNER OF THE EPD: VIDREPUR S.A

DESCRIPTION OF THE ORGANISATION:
Tradition and art brought together for over 30 years in this major company, a leading manufacturer and distributor of glass mosaic tiles. Thanks to our expert hands, cutting-edge designs and innovation, VI-DREPUR is able to provide collections that allow you to decorate spaces with added personality.

Since 1988, VIDREPUR has been one of the world’s leading manufacturers of glass tiling. With its main production plant in Castellón, Spain, and offices in the United States, Russia and Mexico. The company has over 4,000 distributors and a strong presence in the global market. Our products are fully manufac-tured in our Spanish factory and they are made of 99% recycled material.

Since our beginning and as a fundamental value is the care and respect for the environment in all its aspects. Several certificates and guarantees of this added value, support our glass mosaic product and ensures quality and social responsibility.

MORE INFORMATION:
<https://vidrepur.com/en>

PRODUCT-RELATED OR MANAGEMENT SYSTEM-RELATED CERTIFICATIONS:
ISO 9001 and 14001 certificates. Recycled content certified (SCS Recycled Content Standard V7-0) for a minimun 99% pre-consumer recycled glass content.

NAME AND LOCATION OF PRODUCTION SITE:
The production site is located in Carrer del Comerç, 5 12550 in Almassora (Castellón, Spain).



VIDREPUR S.A

PRODUCT NAME:
According to the product classification system UN-CPC, the code for the product manufactured by VI-DREPUR is: 37117 “Paving blocks, bricks, tiles and other articles of pressed or moulded glass, of a kind used for building or construction purposes; leaded lights and the like; multicellular or foam glass in bloc-ks, plates or similar forms”.

PRODUCT DESCRIPTION:
The environmental product declaration describes the environmental information based on a life cycle assessment of glass mosaic tiles manufactured by VIDREPUR S.A in the production site located in Almas-sora (Castellón, Spain) and distributed around the world.

Glass mosaic tile is a construction product used to cover walls and floors. It is composed of flat glass melted at high temperature that allow recreate spectacular effects and colours.

The mosaic glass is extremely resistant to humidity, changes in the temperature and chemical products

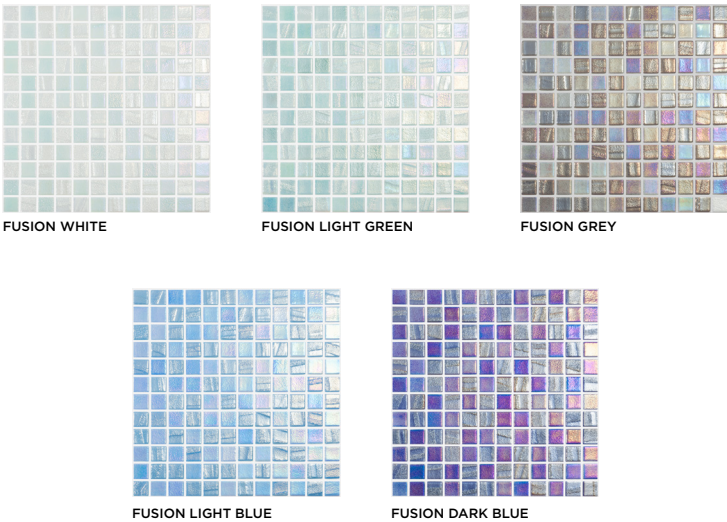
The product is supplied in 2,5 x 2,5 sheets with the pieces stuck on adhesive paper, on fibreglass and polyester or with a dot mesh-backing. Because they are non-fading and easy to clean and install, they are the perfect decorative tiles to cover swimming pools, façades, pillars, interiors, bathrooms, etc. General specifications of VIDREPUR glass mosaic tiles:

As commented before, the product can be supplied stuck in different materials. In this environmental pro-duct declaration has been assessed the impacts of the glass mosaic supplied in those different materials:

- Pieces stuck on adhesive paper.
- Pieces stuck on fibreglass and polyester.
- Pieces stuck with a dot mesh-backing: dots of PVC or PUR.

GEOGRAPHICAL SCOPE:
International

WATER ABSORPTION	0%
FROST RESISTANCE	NOT SUSCEPTIBLE TO FROST DAMAGE
THERMAL SHOCK RESISTANCE	NO CHANGE
CHEMICAL RESISTANCE	ACIDS AND ALKALIS
CRAZING RESISTANT	CRAZING RESISTANT
EXPANSION RESISTANCE	NO CHANGE
USEFUL LIFE	UNLIMITED



DECLARED UNIT:

1 m² covering of a surface with glass mosaic tile.

REFERENCE SERVICE LIFE:

50 years

TIME REPRESENTATIVENESS:

The LCA is based on 2019 production data for Vidrepur Manufacturing site in Almassora (Castellón).

DATABASE(S) AND LCA SOFTWARE USED:

The database was Ecoinvent 3.6 and LCA software SIMAPRO 9.0.0.49.

DESCRIPTION OF SYSTEM BOUNDARIES:

Cradle to gate with options (A1-A3 and A4-A5 and C2-C4).

EXCLUDED LIFECYCLE STAGES:

The use stage and module D are excluded by the LCA study.

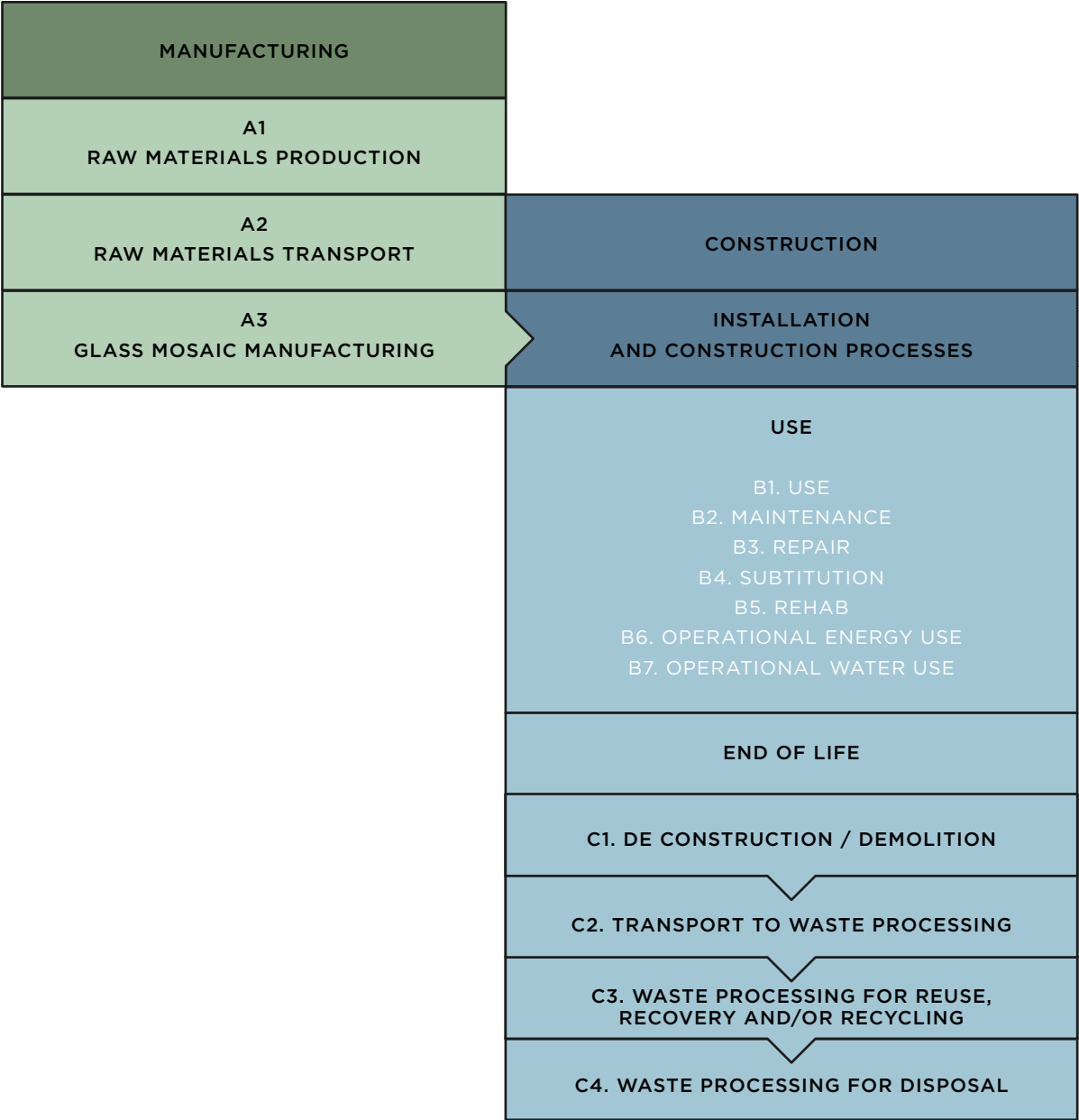
STANDARDS:

The LCA is performed in accordance with the requirements of the following standards:

- ISO 14040:2006
- ISO 14044:2006
- EN 15804:2012+A1:2013
- PCR for Construction Products and Construction Services 2012:01

	PRODUCT STAGE			CONSTRUCTION PROCESS STAGE		USE STAGE							END OF LIFE STAGE				RESOURCE RECOVERY STAGE
	RAW MATERIAL 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
	A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
	X	X	X	X	X	NR	NR	NR	NR	NR	NR	NR	NR	X	X	X	MND

X: Included in LCA NR: Non relevant MND: Module not declared



RAW MATERIALS SUPPLY AND TRANSPORT (A1 AND A2):

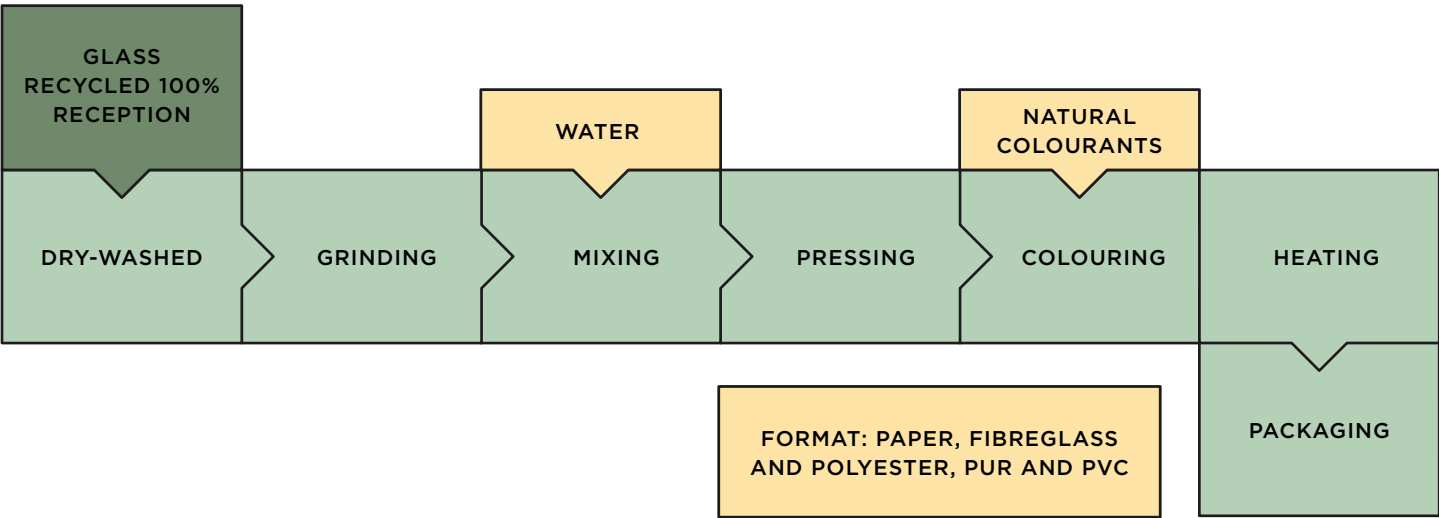
The main material is pre-consumer 100% glass recycled supplied by a waste manager from Spain. For the colour, a thin layer of natural colorant pigments based on mineral oxides is applied and additives such as suspending agents, deflocculants or binders.

All the raw materials considered come from Spain. Glass recycled is transported in bulk and the other raw materials are packaged.

MANUFACTURING (A3):

Both the preparation of the raw materials and the manufacturing of the tiles are made exclusively in Almazora (Castellón). After the final quality control, the products are classified according to the type of support required and subsequently packed in a primary cardboard packaging and on wooden pallets. Later they are covered with film.

DIAGRAM OF MANUFACTURING PROCESS:



TRANSPORT FROM THE GATE TO THE SITE (A4)
For road transport a 24 t truck, EURO VI class, was considered. For transcontinental transport, an average transoceanic freighter was considered. 41,1% of the product is distributed in Spain, 30,7% in Europe and 28,1% to the rest of the world.

SCENARIO INFORMATION	VALUE
VEHICLE TYPE	ROAD LORRY 16-32 METRIC TON, EURO 6 SEA TRANSOCEANIC SHIP
DISTANCE	800 KM NATIONAL DISTRIBUTION 6.000 KM EUROPE DISTRIBUTION 8.700 KM REST OF THE WORLD DISTRIBUTION
BULK DENSITY OF TRANSPORTED PRODUCTS	2460 KG/M3

INSTALLATION INTO THE BUILDING (A5)
This stage includes the Vidrepur glass mosaic application on the construction site. There is no energy use during installation, manpower is sufficient. For the installation, cement based adhesive mortar is used according to the product datasheet.

Packaging waste is handled separately. For the waste treatment rate applied, It has been considered the rates published at Eurostat for Spain. The Spanish rates were selected for being worse than the European.

SCENARIO INFORMATION	VALUE (PER DECLARED UNIT)
ANCILLARY MATERIALS FOR INSTALLATION	0,7 KG/M2 CEMENT BASED ADHESIVE MORTAR
WATER USE	0,00021 M3 (INCLUDED IN THE MORTAR)
OTHER RESOURCE USE	NOT NECESSARY
ENERGY USE	NOT NECESSARY
WASTE STREAMS PRODUCED	WOOD/ FIBREBOARD: 0,173 KG PLASTIC: 0,00995 KG CARDBOARD: 0,0688 KG

DECONSTRUCTION AND DEMOLITION (C1)

There is no energy use during uninstallation, manpower and some tools are sufficient.

TRANSPORT (C2)

Product wastes are transported in a truck according to Euro VI standards, over a distance of 50 km to the destination. In order to estimate the 50 km between the demolished building and the nearest controlled landfill. It has been considered the back so the distance to landfill is 100 km.

For the recycling plant, it has been considered also 50 km.

WASTE PROCESSING FOR REUSE, RECOVERY AND/OR RECYCLING (C3)

It has been used the deconstruction and demolition rates published by Eurostat. <https://ec.europa.eu/eurostat/data/database>

44% of the product is sent to reuse, recovery and recycling.

FINAL DISPOSAL (C4)

56% of the product is sent to controlled landfill.

SCENARIO INFORMATION	UNIT
COLLECTION PROCESS	Kg/DU collected separately: 0%
	Kg/DU collected with mixed construction waste: 100% of the product
RECOVERY SYSTEM	Kg/DU for re-use: 0%
	Kg/DU for recycling: 37%
	Kg/DU for energy recovery: 7%
DISPOSAL	Kg/DU for final disposal: 0%
	Kg/DU to landfill: 56%
WASTE TRANSPORTATION (DISTANCE)	50 km for the recycling plant 100 km to landfill. The return trip is included in the system

*DU: Declared unit

MORE INFORMATION:

The LCA study has been carried out by SGS Tecnos SAU with an internal critical review according to ISO 14040 and 14044.
For contact: silvia.martinezmohedo@sgs.com

According to the PCR, the criteria applied to the glass mosaic product has been the input and output allocation of the system based in physical properties (mass).

As cut-off rule, it has been included the weight/volume of all materials used during the manufacturing in such as way as, at least, the 99% of weight of product unit is included.

All significant parameters shall be included. According to EN 15804, mass flows under 1% of the total mass input; and/or energy flows representing less than 1% of the total primary energy usage of the associated unit process may be omitted. However, the total amount of energy and mass omitted must not exceed 5% per module.

The impact method used are:

- CML-IA Baseline v.3.05
- Cumulative energy demand v. 1.11 for energy resources
- EDIP 2003 v. 1.07 for waste production
- ReCiPe 2016 Midpoint (H) V1.02

DATA QUALITY

Primary data refer to 2019 and have been collected at **VIDREPUR's** plant located in Castellón (Spain), whereas selected generic data have been retrieved from Ecoinvent 3.2 and using the most updated datasets and, as far as possible, those representative for at least 5 years into the future.

The energy-related data refer to the electricity origin declared in the electricity origin certificate supplied by the energy distributor. This certificate declares that the electricity origin is 100% renewable. Whereas, to produce raw materials an European energy mix has been accounted for.

CONTENT DECLARATION

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PRODUCT			
MATERIALS / CHEMICAL SUBSTANCES	KG/M²	%	ENVIRONMENTAL/HAZARDOUS PROPERTIES
GLASS RECYCLED	8,9	99	---
NATURAL COLOURANTS	0,03	0,3	---
OTHER ANCILLARY MATERIALS	0,07	0,7	01-211952948-35-xxxx
TOTAL	9	100	

CONTENT DECLARATION

GLASS MOSAIC TILE SHEETS			
MATERIALS / CHEMICAL SUBSTANCES	WEIGHT. KG	%	ENVIRONMENTAL / HAZARDOUS PROPERTIES
PIECES STUCK ON ADHESIVE PAPER			
KRAFT PAPER	0,09	1,1%	---
PIECES STUCK ON FIBREGLASS AND POLYESTER (MESH)			
KRAFT PAPER	0,14	1,6%	---
PARAFFIN	0,08	0,9%	---
ADHESIVE	0,05	0,5%	---
PIECES STUCK WITH A DOT MESH-BACKING: DOTS OF PVC			
POLYVINYL CHLORIDE	0,18	2%	---
PIECES STUCK WITH A DOT MESH-BACKING: DOTS OF PUR			
POLYURETHANE	0,14	1,6%	---

CONTENT DECLARATION

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PACKAGING		
PACKAGING MATERIALS	WEIGHT, KG	WEIGHT-% (VERSUS THE PRODUCT)
CORRUGATED BOARD BOX	0,023	0,25%
FILM	0,003	0,04%
EUR- FLAT PALLET	0,015	0,17%
HARD FIBREBOARD	3,69E-05	0,000041%
TOTAL	0,042	0,46%

RECYCLED MATERIAL

Provenience of recycled materials (pre-consumer or post-consumer) in the product: The main component of Vidrepur glass mosaic is 100% pre-consumer recycled glass. It is certified by SCS Global Services conforms to SCS Recycled Content Standard V7-0.

ENVIRONMENTAL PERFORMANCE

The environmental impacts are referred to 1 m2 of a surface covered with VIDREPUR glass mosaic tile (unit declared).

GLASS MOSAIC TILE IN ADHESIVE PAPER								
PARAMETER		UNIT	TOTAL A1-A3	A4	A5	C2	C3	C4
GLOBAL WARMING POTENTIAL (GWP)	FOSSIL	kg CO ₂ eq.	1,38E+00	2,76E-01	9,10E-01	1,11E-01	8,28E-03	2,70E-02
	BIOGENIC	kg CO ₂ eq.	3,00E-01	1,67E-03	9,10E-02	6,71E-04	5,21E-04	9,43E-04
	LAND USE AND LAND TRANSFORMATION	kg CO ₂ eq.	4,56E-03	9,39E-05	3,60E-04	3,71E-05	7,1E-06	1,24E-06
	TOTAL	kg CO ₂ eq.	1,68E+00	7,80E-01	9,70E-01	1,11E-01	8,28E-03	2,70E-02
DEPLETION POTENTIAL OF THE STRATOSPHERIC OZONE LAYER (ODP)		kg CFC 11 eq.	1,85E-07	4,97E-08	8,12E-08	2,01E-08	1,85E-09	8,92E-09
ACIDIFICATION POTENTIAL (AP)		kg SO ₂ eq.	4,18E-03	8,33E-04	5,85E-03	2,67E-04	3,70E-05	1,99E-04
EUTROPHICATION POTENTIAL (EP)		kg PO ₄ ³⁻ eq.	1,55E-03	1,56E-04	1,68E-03	5,66E-05	1,54E-05	4,26E-05
FORMATION POTENTIAL OF TROPOSPHERIC OZONE (POCP)		kg C ₂ H ₄ eq.	5,24E-04	4,66E-05	4,84E-04	1,68E-05	1,44E-06	9,72E-06
ABIOTIC DEPLETION POTENTIAL - ELEMENTS		kg Sb eq.	3,83E-06	7,34E-07	4,73E-06	3,05E-07	2,47E-08	3,12E-08
ABIOTIC DEPLETION POTENTIAL - FOSSIL RESOURCES		MJ, net calorific value	1,94E+01	4,08E-00	1,26E+01	1,65E+01	1,13E-01	7,56E-01
WATER SCARCITY POTENTIAL		m³ eq.	4,77E-01	2,56E-02	7,65E-02	1,04E-02	1,88E-03	3,65E-02

GLASS MOSAIC TILE IN ADHESIVE PAPER IN POLYESTER MASH								
PARAMETER		UNIT	TOTAL A1-A3	A4	A5	C2	C3	C4
GLOBAL WARMING POTENTIAL (GWP)	FOSSIL	kg CO ₂ eq.	1,79E+00	2,76E-01	9,10E-01	1,11E-01	8,28E-03	2,70E-02
	BIOGENIC	kg CO ₂ eq.	3,10E-01	1,67E-03	9,10E-02	6,71E-04	5,21E-04	9,43E-04
	LAND USE AND LAND TRANSFORMATION	kg CO ₂ eq.	4,72E-03	9,39E-05	3,60E-04	3,71E-05	7,1E-06	1,24E-06
	TOTAL	kg CO ₂ eq.	2,09E+00	7,80E-01	9,70E-01	1,11E-01	8,28E-03	2,70E-02
DEPLETION POTENTIAL OF THE STRATOSPHERIC OZONE LAYER (ODP)		kg CFC 11 eq.	2,19E-07	4,97E-08	8,12E-08	2,01E-08	1,85E-09	8,92E-09
ACIDIFICATION POTENTIAL (AP)		kg SO ₂ eq.	5,96E-03	8,33E-04	5,85E-03	2,67E-04	3,70E-05	1,99E-04
EUTROPHICATION POTENTIAL (EP)		kg PO ₄ ³⁻ eq.	1,90E-03	1,56E-04	1,68E-03	5,66E-05	1,54E-05	4,26E-05
FORMATION POTENTIAL OF TROPOSPHERIC OZONE (POCP)		kg C ₂ H ₄ eq.	6,86E-04	4,66E-05	4,84E-04	1,68E-05	1,44E-06	9,72E-06
ABIOTIC DEPLETION POTENTIAL - ELEMENTS		kg Sb eq.	5,18E-06	7,34E-07	4,73E-06	3,05E-07	2,47E-08	3,12E-08
ABIOTIC DEPLETION POTENTIAL - FOSSIL RESOURCES		MJ, net calorific value	3,61E+01	4,08E-00	1,26E+01	1,65E+01	1,13E-01	7,56E-01
WATER SCARCITY POTENTIAL		m ³ eq.	6,87E-01	2,56E-02	7,65E-02	1,04E-02	1,88E-03	3,65E-02

GLASS MOSAIC TILE IN DOTS OF PVC								
PARAMETER		UNIT	TOTAL A1-A3	A4	A5	C2	C3	C4
GLOBAL WARMING POTENTIAL (GWP)	FOSSIL	kg CO ₂ eq.	1,68E+00	2,76E-01	9,10E-01	1,11E-01	8,28E-03	2,70E-02
	BIOGENIC	kg CO ₂ eq.	3,10E-01	1,67E-03	9,10E-02	6,71E-04	5,21E-04	9,43E-04
	LAND USE AND LAND TRANSFORMATION	kg CO ₂ eq.	4,60E-03	9,39E-05	3,60E-04	3,71E-05	7,1E-06	1,24E-06
	TOTAL	kg CO ₂ eq.	1,99E+00	7,80E-01	9,70E-01	1,11E-01	8,28E-03	2,70E-02
DEPLETION POTENTIAL OF THE STRATOSPHERIC OZONE LAYER (ODP)		kg CFC 11 eq.	1,83E-07	4,97E-08	8,12E-08	2,01E-08	1,85E-09	8,92E-09
ACIDIFICATION POTENTIAL (AP)		kg SO ₂ eq.	5,47E-03	8,33E-04	5,85E-03	2,67E-04	3,70E-05	1,99E-04
EUTROPHICATION POTENTIAL (EP)		kg PO ₄ ³⁻ eq.	1,74E-03	1,56E-04	1,68E-03	5,66E-05	1,54E-05	4,26E-05
FORMATION POTENTIAL OF TROPOSPHERIC OZONE (POCP)		kg C ₂ H ₄ eq.	5,78E-04	4,66E-05	4,84E-04	1,68E-05	1,44E-06	9,72E-06
ABIOTIC DEPLETION POTENTIAL - ELEMENTS		kg Sb eq.	4,40E-06	7,34E-07	4,73E-06	3,05E-07	2,47E-08	3,12E-08
ABIOTIC DEPLETION POTENTIAL - FOSSIL RESOURCES		MJ, net calorific value	3,22E+01	4,08E-00	1,26E+01	1,65E+01	1,13E-01	7,56E-01
WATER SCARCITY POTENTIAL		m ³ eq.	1,52E+00	2,56E-02	7,65E-02	1,04E-02	1,88E-03	3,65E-02

GLASS MOSAIC TILE IN DOTS OF PUR								
PARAMETER		UNIT	TOTAL A1-A3	A4	A5	C2	C3	C4
GLOBAL WARMING POTENTIAL (GWP)	FOSSIL	kg CO ₂ eq.	2,33E+00	2,76E-01	9,10E-01	1,11E-01	8,28E-03	2,70E-02
	BIOGENIC	kg CO ₂ eq.	3,30E-01	1,67E-03	9,10E-02	6,71E-04	5,21E-04	9,43E-04
	LAND USE AND LAND TRANSFORMATION	kg CO ₂ eq.	4,46E-03	9,39E-05	3,60E-04	3,71E-05	7,1E-06	1,24E-06
	TOTAL	kg CO ₂ eq.	2,66E+00	7,80E-01	9,70E-01	1,11E-01	8,28E-03	2,70E-02
DEPLETION POTENTIAL OF THE STRATOSPHERIC OZONE LAYER (ODP)		kg CFC 11 eq.	1,85E-07	4,97E-08	8,12E-08	2,01E-08	1,85E-09	8,92E-09
ACIDIFICATION POTENTIAL (AP)		kg SO ₂ eq.	8,71E-03	8,33E-04	5,85E-03	2,67E-04	3,70E-05	1,99E-04
EUTROPHICATION POTENTIAL (EP)		kg PO ₄ ³⁻ eq.	2,46E-03	1,56E-04	1,68E-03	5,66E-05	1,54E-05	4,26E-05
FORMATION POTENTIAL OF TROPOSPHERIC OZONE (POCP)		kg C ₂ H ₄ eq.	7,24E-04	4,66E-05	4,84E-04	1,68E-05	1,44E-06	9,72E-06
ABIOTIC DEPLETION POTENTIAL - ELEMENTS		kg Sb eq.	5,34E-06	7,34E-07	4,73E-06	3,05E-07	2,47E-08	3,12E-08
ABIOTIC DEPLETION POTENTIAL - FOSSIL RESOURCES		MJ, net calorific value	4,07E+01	4,08E-00	1,26E+01	1,65E+01	1,13E-01	7,56E-01
WATER SCARCITY POTENTIAL		m ³ eq.	1,44E+00	2,56E-02	7,65E-02	1,04E-02	1,88E-03	3,65E-02

USE OF RESOURCES

The impacts showed below are referred to cover 1 m2 of surface with the glass mosaic tile in adhesive paper. The module A4 to C4 are the same for the other formats (polyester mash, dots of PVC and dots PUR). Below this table, the impacts for modules A1-A3 are showed for the other formats in order to see the difference depending of the format used to the product.

PARAMETER		UNIT	TOTAL A1-A3	A4	A5	C2	C3	C4
PRIMARY ENERGY RESOURCES - RENEWABLE	USE AS ENERGY CARRIER	MJ, net calorific value	1,45E+01	5,57E-02	9,10E-01	1,11E-01	8,28E-03	2,70E-02
	USED AS RAW MATERIALS	MJ, net calorific value	0	0	0	0	0	0
	TOTAL	MJ, net calorific value	1,45E+01	5,57E-02	0	2,19E-02	3,59E-02	1,98E-02
PRIMARY ENERGY RESOURCES - NON-RENEWABLE	USE AS ENERGY CARRIER	MJ, net calorific value	2,27E+01	4,42E-00	9,14E+00	1,78E+00	2,06E-01	8,15E-01
	USED AS RAW MATERIALS	MJ, net calorific value	0	0	0	0	0	0
	TOTAL	MJ, net calorific value	2,27E+01	4,42E-00	9,14E+00	1,78E+00	2,06E-01	8,15E-01
SECONDARY MATERIAL		MJ, net calorific value	8,91E+00	0	0	0	0	0
RENEWABLE SECONDARY FUELS		MJ, net calorific value	0	0	0	0	0	0
NON-RENEWABLE SECONDARY FUELS		MJ, net calorific value	0	0	0	0	0	0
NET USE OF FRESH WATER		MJ, net calorific value	1,20E-02	7,75E-04	2,34E-03	3,12E-04	1,51E-04	8,51E-04



POTENTIAL ENVIRONMENTAL IMPACT					
PARAMETER		UNIT	POLYESTER MASH	DOTS PVC	DOTS PUR
			TOTAL A1-A3	TOTAL A1-A3	TOTAL A1-A3
PRIMARY ENERGY RESOURCES - RENEWABLE	USE AS ENERGY CARRIER	MJ, net calorific value	1,48E+01	1,47E+01	1,52E+01
	USED AS RAW MATERIALS	MJ, net calorific value	0	0	0
	TOTAL	MJ, net calorific value	1,48E+01	1,47E+01	1,52E+01
PRIMARY ENERGY RESOURCES - RENEWABLE	USE AS ENERGY CARRIER	MJ, net calorific value	4,13E+01	4,42E+00	4,82E+01
	USED AS RAW MATERIALS	MJ, net calorific value	0	0	0
	TOTAL	MJ, net calorific value	4,13E+01	4,42E+00	4,82E+01
SECONDARY MATERIAL		kg	8,91E+00	8,91E+00	8,91E+00
RENEWABLE SECONDARY FUELS		MJ, net calorific value	0	0	0
NON-RENEWABLE SECONDARY FUELS		MJ, net calorific value	0	0	0
NET USE OF FRESH WATER		m3	1,76E-02	4,06E-02	3,55E-02



WASTE PRODUCTION							
PARAMETER	UNIT	TOTAL A1-A3	A4	A5	C2	C3	C4
HAZARDOUS WASTE DISPOSED	kg	3,44E-05	2,48E-06	2,07E-04	1,00E-06	1,54E-07	5,37E-07
NON-HAZARDOUS WASTE DISPOSED	kg	1,11E+00	1,94E-01	2,68E-01	8,08E-02	5,35E-03	5,04E+00
RADIATIVE WASTE DISPOSED	kg	8,36E-05	2,80E-05	0,00E+00	1,13E-05	1,88E-06	5,02E-06

WASTE PRODUCTION				
PARAMETER	UNIT	POLYESTER MASH	DOTS PVC	DOTS PUR
		TOTAL A1-A3	TOTAL A1-A3	TOTAL A1-A3
HAZARDOUS WASTE DISPOSED	kg	3,86E-05	3,58E-05	3,67E-05
NON-HAZARDOUS WASTE DISPOSED	kg	1,21E+00	1,12E+00	1,14E+00
RADIATIVE WASTE DISPOSED	kg	1,05E-04	8,51E-05	8,65E-05

OUTPUT FLOWS							
PARAMETER	UNIT	TOTAL A1-A3	A4	A5	C2	C3	C4
COMPONENTS FOR REUSE	kg	0	0	0	0	0	0
MATERIAL FOR RECYCLING	kg	2,15E-04	3,38E-05	1,32E-01	0,00E+00	3,34E+00	2,37E-06
MATERIALS FOR ENERGY RECOVERY	kg	0	0	0	0	0	0
EXPORTED ENERGY, ELECTRICITY	kg	0	0	0	0	0	0
EXPORTED ENERGY, THERMAL	kg	0	0	0	0	0	0

WASTE PRODUCTION				
PARAMETER	UNIT	POLYESTER MASH	DOTS PVC	DOTS PUR
		TOTAL A1-A3	TOTAL A1-A3	TOTAL A1-A3
COMPONENTS FOR REUSE	kg	0	0	0
MATERIAL FOR RECYCLING	kg	2,76E-04	2,52E-04	2,99E-04
MATERIALS FOR ENERGY RECOVERY	kg	0	0	0
EXPORTED ENERGY, ELECTRICITY		0	0	0
EXPORTED ENERGY, THERMAL		0	0	0

NO FURTHER INFORMATION IS PROVIDED.

REFERENCES

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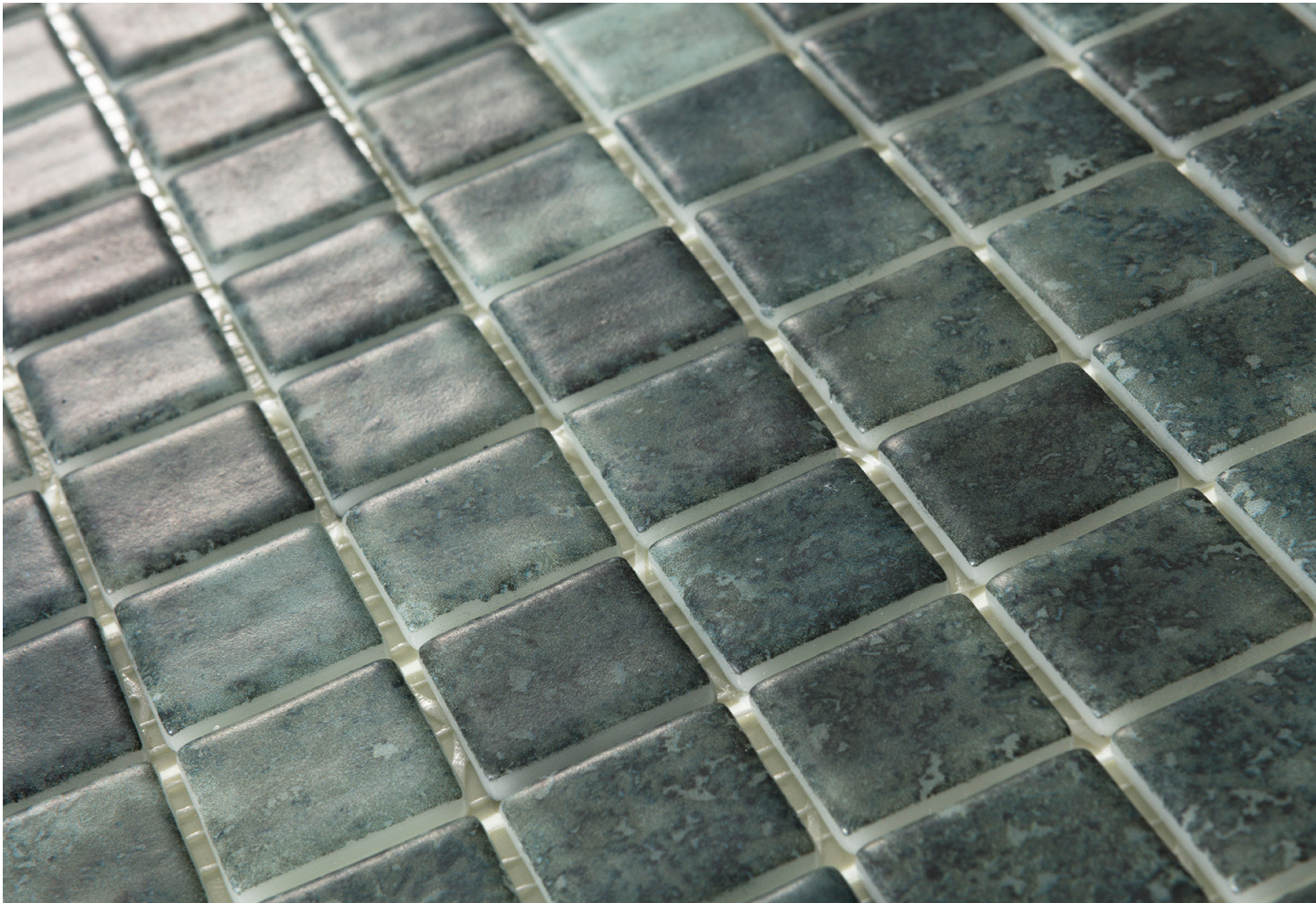
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