

Environmental Product Declaration (EPD)

of secondary raw materials or aggregates of industrial origin

MATRIX

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CPC Group: Construction products
PCR 2012:01 version 2.3 valid until 2020-03-03



1 DESCRIPTION OF THE COMPANY AND THE PRODUCT

1.1 The company



Officina dell'Ambiente S.p.A, located in the municipality of Lomello in Pavia province, performs the treatment and recovery process of special hazardous and non-hazardous

wastes, mainly bottom ashes derived from municipal incineration plants to be re-used as secondary raw material for the production of cement and other building materials. Since November 2015 a new plant was put into operation in Conselice (Ravenna province).

Thousands of tonnes of bottom ashes from incineration, instead of being disposed in landfill, are treated in a controlled manner through a treatment/recovery cycle which generates a secondary raw material, named Matrix®, as substitute of primary raw material for cement production and other building products.

Today, Matrix® has become a family of products with different characteristics and ranging over almost all building sectors. At the moment, representatives of the Matrix® Family are:

- Matrix® Standard, with a particle size between 0 and 10 mm;
- AGMatrix®, with a particle size between 2 and 10 mm, this product is EC-labelled as aggregate for concrete in 2008;
- Sand Matrix®, a group of sands that can be produced in particle size of 0-2 mm, 0-4 mm and 2-4 mm.

The recovery of incineration bottom ashes, otherwise disposed in landfill, allows to conserve

resources mitigating the demand for raw materials and the depletion of natural resources. Officina dell'Ambiente complies with European Union Directives that provide a management policy aimed at minimizing waste production, focusing on their recovery rather than their disposal.

Officina dell'Ambiente supplies several cement plants and producers of concrete with a wide range of products as substitutes of primary raw materials with the dual purpose of removing a considerable flow of waste from landfill and to preserve the reserves of natural materials.

Officina dell'Ambiente holds the Environmental Management System certificate according to the scheme of UNI EN ISO 14001:2015, which has the following scope: treatment and recovery of specific hazardous and non-hazardous waste through the phases of weighing, unloading, storage and physical-mechanical separation.

The headquarters of Officina dell'Ambiente, which corresponds to the production site, is in Strada Provinciale 193bis – Tenuta Grua LOMELLO (PV). The other plant, where only Sand Matrix is produced, is located in Via Selice, Conselice (RA).

This site of Lomello is ISO 14001 certified and EMAS registered from 2006. The Conselice site has received ISO 14001:2015 certification in September 2016 and is currently working for the EMAS registration. In all cases, the certification body is DNV Italy.

1.2 AGMatrix®

The main process of Officina dell'Ambiente S.p.A. is aimed to obtain the product named Matrix® Standard, starting from bottom ashes derived from municipal incineration plants. The process involves a set of physical-mechanical treatments, without the addition of chemical reagents, consisting of a screening, crushing and separation of ferrous and non-ferrous metals. More in detail, the main production process of Officina dell'Ambiente consists of the following phases:

- acceptance of the waste;
- unloading of the waste in specific areas of the production site;
- waste maturation process;
- loading of the waste through loading hoppers and transferring to the treatment plant;
- screening and separation of the waste;
- crushing and separation of ferrous metals from unscreened waste;
- storage of Matrix® Standard in specific areas of the production site;
- picking and selling of the finished product.

Following the production of Matrix® Standard, Officina dell'Ambiente has built in the external area of the plant a system of vibrating sieves working without the use of water, which separates Matrix® Standard into the fractions

with particle size 0-4 mm, 2-10 mm and >10 mm (which is sent back to the crushing system).

The product with particle size 2-10 mm is later treated by a screening system working with the use of water, in order to separate particles size 0-1 mm and to obtain AGMatrix®. This material is produced only in Lomello.

The main applications of AGMatrix® are the following:

- as a substitute for natural sand and gravel for the use in low/medium-resistance concrete; AGMatrix® has EC marking in accordance with UNI EN standard 12620 with the "2+" system, which is mandatory for aggregates utilized in this sector;
- as an aggregate to replace natural sand and gravel for the production of concrete products such as blocks, pavers and curbs; it is possible to evaluate the complete substitution or a percentage of the inert in the dough with the AGMatrix®;
- in the production of ceramics, it has been shown that AGMatrix® can be added to enamelled mixtures of technical porcelain in place of feldspar.

As required by PCR document 2012:01, in Matrix® products there are no substances with a high degree of concern (SVHC) provided in the ECHA Candidate List with a concentration greater than 0,1%.

Table 1: Quantity of AGMatrix® product in 2018

Product	U.M.	Quantità
AGMatrix®	ton	13.484

Declared Unit

1000 kg of Matrix product

The phases of distribution, use and disposal of the product are not included in the study

1.3 Composition of the product

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Parameter	U.M.	2018	SD*	Parameter	U.M.	2018	SD*
Humidity	%	5,27	1,77	As	mg/kg	10	10
SiO ₂	% s.s.	58,43	2,23	Cd	mg/kg	3	2
AI_2O_3	% s.s.	7,01	0,91	Cr total	mg/kg	350	235
Fe ₂ O ₃	% s.s.	5,47	0,38	Cr (VI)	mg/kg	< 1	
CaO	% s.s.	14,81	1,04	Cu	mg/kg	1318	811
MgO	% s.s.	2,45	0,10	Hg	mg/kg	< 5	
Na ₂ O	% s.s.	2,96	1,65	Mn	mg/kg	530	298
K ₂ O	% s.s.	0,71	0,44	Ni	mg/kg	68	44
TiO ₂	% s.s.	0,47	0,06	Pb	mg/kg	1041	669
Mn_2O_3	% s.s.	0,08	0,04	Sb	mg/kg	35	19
Cr_2O_3	% s.s.	0,05	0,03	Se	mg/kg	< 5	
S total	% s.s.	0,21	0,20	V	mg/kg	19	8
SO ₃	% s.s.	0,52	0,50	Zn	mg/kg	1803	834
P ₂ O ₅	% s.s.	0,64	0,13				
CI	% s.s.	0,059	0,009				
CaCO ₃	% s.s.	4,65	1,14				
Loss on	% s.s.	2,29	0,41				

 Table 2: Average chemical composition of AGMatrix® produced in 2018 (*SD: standard deviation)

1.4 System boundaries

System boundaries determine the unit processes to be included in LCA study and which data as "input" and/or "output" to/from the system could be omitted. According to the PCR 2012:01 and to EN 15804:2012, the life cycle of Matrix® products is divided into upstream and core phase, as specified below. The upstream phase (A1) comprises the supply of raw materials and specifically:

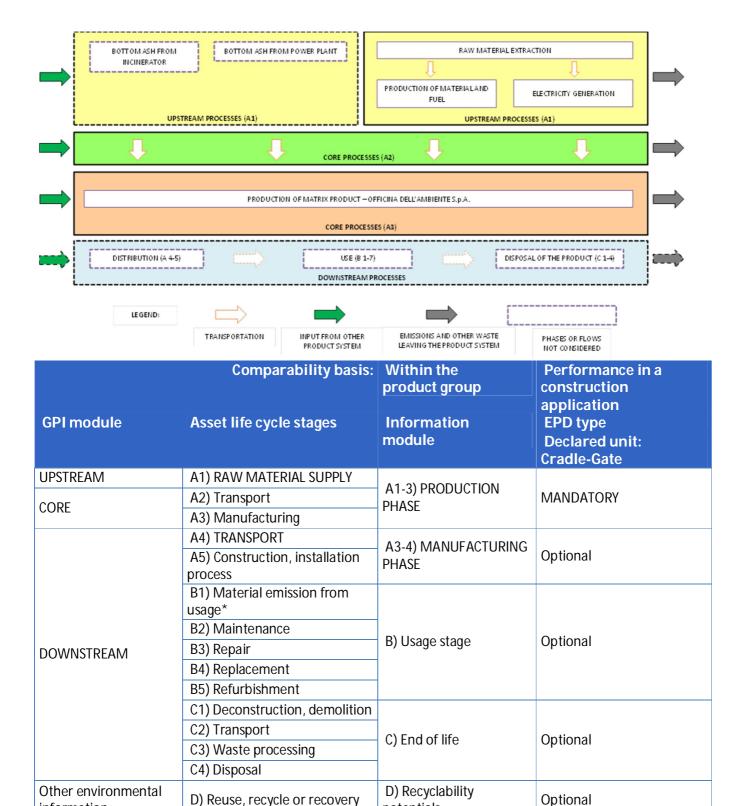
- the extraction and processing of raw materials and recycling processes of the secondary raw materials from the previous product system (with the exception of the processes which are part of the waste treatment of the previous product system);
- the electricity generation from primary energy sources, including their extraction, refining and distribution;

 energy recovery from secondary fuels (with the exception of processes which are part of the waste treatment in the system of the previous product).

The core phase, divided in two parts, includes the following processes:

- external and internal transport between processes belonging to the core phase (A2);
- production of Matrix® products and treatment of waste derived from the production of Matrix® products (A3).

The downstream phase is not included in the system boundaries. In the figure below it is shown the schematic diagram of the life cycle of the product and the table regarding life cycle stages according to the PCR and the EN 15804 and to the LCA diagram.



^{*} Named 'Use' in ISO 21930

B)1-5

information

Inclusion of reference

service life (RSL)

potentials

B) Usage stage

Mandatory if all life

stages included

1.5 Data quality and cut-off

The inventory analysis was conducted using specific data provided by Officina dell'Ambiente concerning the consumption of raw materials and electricity, the production of Matrix® products and related waste. All data refer to the year 2018. The electricity consumed by Officina dell'Ambiente is produced from hydroelectric and solar power (74%) and photovoltaic sources (26%).

Selected generic data was used from international databases (in particular Ecoinvent 3.5) regarding the production processes of the auxiliary materials used for the production of Matrix® products, the processes of generation and distribution of electricity, the means of transportation and waste treatment processes

related to the production of Matrix® products. Furthermore, the distances of transportation were calculated using Google Maps online calculator. Generic data was not used.

According to the PCR 2012:01 and to the cut-off rules, flows lower than 1% of the total inventory were excluded; in particular the following processes were excluded: the packaging of auxiliaries; the maturation process of the bottom ash, the accumulation and the process of natural weathering of the Matrix® Standard; the consumption of natural gas for heating offices, the travels of workers to and from work and the construction of machinery and plants, as not directly related to the product.

1.6 Distribution, use phase and disposal of the product

The distribution of the product, use phase and disposal of Matrix® products were not

considered ("cradle-to-gate" LCA study, i.e. from cradle to the gate of the company).

1.7 Comparison of EPD within the same product category

This EPD meets the requirements of ISO 14025 and EN 15804. The EPD within the same product category but which refer to different programs cannot be compared. EPD of construction products may not be comparable if they do not

comply with the requirements of comparability set in EN 15804.

AGMatrix® product described in this document is based on specific PCR 2012:01 version 2.3 valid until 03-03-2020.

1.8 Validity of EPD

This EPD refers to the geographical area of Italy and remains valid until the 11th of April 2024.

2 ENVIRONMENTAL PERFORMANCE

The environmental performance of AGMatrix® product, as described below, is based on the methodology of Life Cycle Assessment (LCA) and it was calculated in accordance with ISO 14040 and 14044, the International EPD® system, PCR 2012:01 and EN 15804:2012. The management and update of environmental data concerning EPD products are regulated by a specific

procedure in the manual for the management systems of safety and environment (complying with EMAS Regulation). The radioactivity of bottom ash from incineration of municipal waste is monitored before sending to Officina dell'Ambiente in order to exclude the delivery of radioactive bottom ash.

2.1 Assessment methodology

The calculation method adopted for the LCA study of the present EPD is described in the document "General Programme Instruction for an International EPD® System" version 2.01 and the characterization factors used to convert the data deriving from the inventory analysis of the life cycle into impact categories are listed in the web-site www.environdec.com and described in the PCR. In addition to the impact categories

required by PCR, the impact categories related to aquatic and terrestrial ecotoxicity, human toxicity and land use were also considered; these impact categories are taken from the CML 2001 method developed by Center the Science Environmental (CML) of Leiden University in the Netherlands (http://cml.leiden.edu/software/datacmlia.html).

2.2 Environmental profile of AGMatrix®

The impact categories presented in the following table refer to one (1) tonne of product and characterize upstream, core and the life cycle of

AGMatrix®. Resources, whose contribution is greater than 5% of the total impact of one (1) ton of AGMatrix®, are also shown.

Table 3: Environmental impacts of 1 tonne of AGMatrix®

Table 3. Environmental in		Upstream	Core	Core	
Impact categories	Unit	(A1)	(A2)	(A3)	A1-A3
Global warming 100 years	kg CO₂ eq	8,774	48,306	25,872	82,951
Ozone layer depletion	mg CFC-11 eq	2,354	9,101	3,151	14,605
Photochemical oxidation	g C ₂ H ₄	1,647	6,170	2,648	10,465
Acidification	g SO₂ eq	53,588	201,884	103,790	359,262
Eutrophication	g PO₄ eq	10,517	33,173	34,390	78,080
Depletion of abiotic resource (element)	kg Sb eq	6,79E-08	9,64E-08	8,42E-08	2,48E-07
Depletion of abiotic resource (fossil)	MJ .	171,842	702,584	240,972	1115,398
Human toxicity 100 years	kg 1,4-DB eq	2,464	12,895	5,950	21,309
Freshwater aquatic ecotoxicity 100 years	kg 1,4-DB eq	0,701	0,797	4,165	5,663
Marine aquatic ecotoxicity 100 years	kg 1,4-DB eq	1,80E+03	3,24E+03	5,54E+03	1,06E+04
Terrestrial ecotoxicity 100 years	kg 1,4-DB eq	0,011	0,037	0,015	0,062
Landuse	m ² a	0,071	0,097	0,018	0,203
Use of renewable primary energy excluding renewable primary energy resources used as raw materials	MJ	70,967	1,805	0,710	73,482
Use of renewable primary energy resources used as raw materials	MJ	0,032	0,044	0,016	0,092
Total use of renewable primary energy resources	MJ	70,999	1,849	0,726	73,574
Use of non-renewable primary energy excluding nonrenewable primary energy resources used as raw materials	MJ	182,361	720,665	247,645	1150,672
Use of non- renewable primary energy resources used as raw materials	MJ	0,007	0,002	0,001	0,010
Total use of non-renewable primary energy resources	MJ	182,368	720,667	247,646	1150,682
Use of secondary material	kg	0,000	0,000	1,169	1,169
Use of renewable secondary fuels	MJ	0,000	0,000	0,000	0,000
Net use of fresh water	m³	0,027	0,026	1,656	1,709
Non-hazardous waste	kg	0,015	0,010	5,113	5,139
Hazardous waste	kg	0,001	0,008	0,003	0,011
Radioactive waste	kg	0,000	0,000	0,000	0,000

Table 4: Consumption of renewable and non-renewable resources of 1 ton of 1 tonne of AGMatrix® Use of renewable primary energy excluding renewable primary energy resources used as raw

A1-A3

Unit

materials

Use of renewable primary energy resources used as raw materials

Unit

A1-A3

matchiais					
Solar energy	MJ	52,504	Hard wood in forest	MJ	0,058
Hydropower energy	MJ	18,621	Soft wood in forest	MJ	0,034
Other resources	MJ	2,357	Other resources	MJ	0,000
Total resources	MJ	73,482	Total resources	MJ	0,092
			Has af man manageable		
Use of non-renewable primary energy	Unit	A1-A3	Use of non- renewable primary energy resources used as raw materials	Unit	A1-A3
Oil	MJ	1.079,376	Inert	kg	0,213
Natural gas	MJ	42,850	Sodium chloride	kg	0,248
Coal	MJ	14,889	Calcite	kg	0,051
Other resources	MJ	13,567	Other resources	kg	0,018
Total resources	MJ	1.150,682	Total resources	kg	0,529

2.3 Additional environmental information

Comparison between AGMatrix® and gravel production

AGMatrix® was compared with gravel, whose life cycle includes the extraction of the raw material, the handling inside the cave and the treatment of the extracted material; the life cycle of the gravel was obtained from Ecoinvent database (process "Gravel, round {IT}| gravel and sand quarry operation | Cut off, U" modified with the Italian

energy mix), ETH database (process "Gravel ETH U") and ELCD database (process "Gravel 2/32, wet and dry quarry, production mix, at plant, undried RER S"). The following table presents the results of the comparison relative to 1 tonne of product.

Impact category	Unit	AGMatrix®	AGMatrix® with avoided impacts of slag disposal	AGMatrix® with avoided impacts of slag disposal and primary production of iron and aluminium	Gravel (Ecoinvent)	Gravel (ETH)	Gravel (ELCD)
Global warming 100 years	kg CO2 eq	82,951	-644,715	-712,435	2,594	10,227	3,408
Ozone layer depletion	mg CFC-11 eq	14,605	12,204	7,637	0,406	12,279	0,626
Photochemical oxidation	g C₂H₄	10,465	-143,996	-239,129	0,507	0,892	1,406
Acidification	g SO₂ eq	359,262	68,343	-476,784	22,228	31,609	26,751
Eutrophication	g PO ₄ eq	78,080	-2884,096	-3002,469	4,443	6,075	2,204
Human toxicity 100 years	kg 1,4-DB eq	21,309	-200,671	-238,056	0,378	1,098	0,167
Freshwater aquatic ecotoxicity 100 years	kg 1,4-DB eq	5,663	-2262,841	-2295,223	0,353	0,169	0,005
Marine aquatic ecotoxicity 100 years	kg 1,4-DB eq	1,06E+04	-1,09E+06	-1,16E+06	1,69E+03	2,31E+03	9,89E+02
Terrestrial ecotoxicity 100 years	kg 1,4-DB eq	0,062	-1,552	-2,027	0,001	0,006	0,002
Land use	m²a	0,203	0,036	-1,319	0,433	4,659	0,000
Water consumption	m³	1,709	1,687	1,552	0,011	0,112	-0,019
Use of renewable primary energy excluding renewable primary energy resources used as raw materials	MJ	73,482	45,910	14,712	5,273	3,508	2,880
Use of renewable primary energy resources used as raw materials	MJ	0,092	0,000	-0,585	0,076	0,049	0,000
Use of non-renewable primary energy excluding nonrenewable primary energy resources used as raw materials	MJ	1150,672	937,212	164,751	42,675	161,402	38,313
Use of non- renewable primary energy resources used as raw materials	MJ	0,010	-0,0631	-0,0969	0,0538	2,918	2,358

Table 5: Results of the comparison between AGMatrix® (without and with avoided impacts) and gravel

From the above results, it can be noted that, as regards the indicators of global warming, formation of photochemical smog, acidification and eutrophication, all the impact categories are higher in the life cycle of the AGMatrix® (compared to the process database Ecoinvent): that is due to the higher consumption of fossil fuels. Only the indicator depletion of the ozone layer for the process of extracting the sand of the database ETH is greater than AGMatrix®.

Concerning the indicators of toxicity, all impact categories are higher in the life cycle of AGMatrix® due to increased consumption of fossil fuels and processes for waste disposal.

The consumption of non-renewable resources as raw material in the AGMatrix® results to be higher than other extraction processes of the sand, as well as the consumption of nonrenewable resources of AGMatrix®, mainly due to the transport of waste incinerators to Officina dell'Ambiente; consumption of renewable resources as raw material is not particularly significant as it is related to the biomass used for the production of electricity in the energy mix of European countries. Instead, the consumption of renewable energy resources indicates that the extraction of sand used traditional resources (fossil fuels). It should be emphasized that for the production of AGMatrix is used only electricity from renewable sources. The water consumption is higher than in the production of the AGMatrix® because it refers the water used to wet the heaps.

With regards to the comparison between the scenarios of AGMatrix® with and without

avoided impacts of bottom ash, the greatest benefit is evident in the indicator of ecotoxicity in water and the indicator of eutrophication as a result of avoided emissions into water of toxic substance, phosphate and COD released by bottom ash.

With regards to the comparison between the scenarios of AGMatrix® with and without avoided impacts of bottom ash disposal in landfill (calculated modifying process "Municipal solid waste (waste treatment) {CH} | treatment of municipal solid waste, sanitary landfill | Cut-off, U" of Ecoinvent database) and the primary production of iron and aluminium (calculated with processes "Sinter, iron {GLO} | production | Cut-off, U" and "Aluminium production | Cut-off, U" of Ecoinvent database), the greatest benefits are evident in the indicators of non-renewable resources, with and without energy content, due to the avoided supply of raw materials and fossil fuels (the latter contributes to the reduction of global warming potential); water consumption remains almost constant because it is related to the production of AGMatrix®; also in the indicator of formation of photochemical smog, due to the avoided emission of carbon monoxide derived from primary production of iron; also in the indicator of acidification, due to the avoided emission of sulphur dioxide derived from the primary production of iron; and also in the eutrophication, indicator of toxicity ecotoxicity, due to the avoided emissions derived from landfill.

Quality of Matrix® products

Officina dell'Ambiente S.p.A. applies a production cycle that includes a series of self-limitations with the aim to further increase the level of assurance of the already high technical standards of the Matrix ®. In particular, bottom ashes produced by incinerators that treat special industrial waste are never delivered to Officina dell'Ambiente, even if that bottom ash could be theoretically compatible for its chemical and physical properties; other types of waste are never delivered and treated, even if Officina dell'Ambiente is authorized to receive different

EWC waste code, therefore mixing of wastes does not occur; waste from storage centres is never delivered to Officina dell'Ambiente but only ash produced by individual furnaces is accepted, so as to maintain a clear traceability and specificity of the incoming material. Environmental controls on Matrix® Family are performed to ensure products with consistent quality and environmental characteristics compatible with the limits of the law and regulations. All Matrix® products are subject to strict controls: analysis includes the major inorganic constituents and heavy metals and are carried out on samples that represent

the average production of the plant. Main organic pollutants are regularly measured on a monthly basis in the Matrix ® Standard and their values are always equal to zero or extremely low. Officina dell'Ambiente has set up a chemical laboratory equipped with modern instrumentation and directed by a chemist regularly enrolled with the professional Order. The instrumental equipment is able to realize inorganic analysis with particular reference to complex mineralogical matrices such as slag from

incineration (ball mills, digester oven, muffle for inductively coupled plasma mergers alkaline, spectrometer for the determination of metals). In addition physical and mechanical tests are performed, as required to maintain the EC labels, and the same laboratory is suitable for carrying out independently mixtures of concrete and mortar together with a number of measurements according to the UNI EN Alternatively, highly qualified external rules. laboratories are employed.

Product certification

According Regulation 305/2011/CE, to building materials may be sold only if they possess EC marking in accordance to the corresponding technical standard. For almost all of the applications of Matrix® products, EC marking is required. Obtaining this marking requires the existence of the Quality Control System, known as FPC (Factory Production Control) that once implemented is subject to certification by an independent body (ICMQ, certificate number 1305-CPD-0661). Officina dell'Ambiente S.p.A. has been certified at the beginning of 2008 and the FPC system covers five products for a total of eleven EC marking in accordance with the technical standard.

All products of the Matrix® Family play an important role in the LEED certification scheme as they contribute to the achievement of credits related to the section "Materials and resources" either for category 4 (recycled content) and category 5 (regional materials). To facilitate the acquisition of credits by customers working in ecosustainable building, the recycled content in Matrix® products, which is equal to 100% post-consumer waste, has been established using the requirements of the standard ISO 14021. The result is a self-declared environmental statement (in accordance with ISO 14021) whose accuracy has been subjected to independent validation of ICMQ certification.

Improvement strategy

Based on the results of the LCA study and maintaining what has already been reported in the EMAS Environmental Declaration, improvement goals set by Officina dell'Ambiente for Matrix® products include the extension of the

CE marking to at least one more Matrix® product and the reduction of environmental impacts of Matrix® products through the review of the logistics of transporting of waste input.

Differences of the environmental performance versus previous versions of the EPD

Officina dell'Ambiente, always attentive to environmental issues, since 2011 has verified its impacts through the life cycle analysis of its products and the preparation and publication of the Environmental Product Declaration within the International EPD® System. Over the years, it has improved its analysis, implementing the collection of primary data and specific information, deepening the assessment of all the processing phases.

This year a new version of the database was used, from Ecoinvent in version 3.3 to version 3.5. Also

the software was updated (from SimaPro version 8.5 to SimaPro version 9).

Analyzing the main environmental impacts (global warming, depletion of the ozone layer, formation of photochemical smog, acidification and eutrophication), in 2018 there was a decrease for all impact indicators, mainly due to the reduction of the distance of transport of the ashes to the site of Lomello which has gone from 420 km in 2017 to 308 km in 2018.

3 REFERENCES

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- General Programme Instructions for the International EPD System, version 2.5 dated 2015-05-11
- PCR 2012:01 version 2.3 valid until 2020-03-03; Group CPC: Construction products
- UNI EN 15804:2014 Sostenibilità delle costruzioni Dichiarazioni ambientali di prodotto Regole chiave di sviluppo per categoria di prodotto
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EPD from the same product category but referring to different programmes cannot be compared.

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CEN EN 15804 was used as a basic PCR.

PCR and PCR BASIC MODULE: Construction products and Construction services; version 2.3 valid until 2020-03-03, 2012:01

The revision of the PCR was conducted by: Technical Committee of the International EPD® System (president: Massimo Marino). email: info@environdec.com

Independent verification of the declaration and data, according to ISO 14025

The third-party verification was conducted by Vito D'Incognito Via Vallazze 95 Milano tel. +39 335 6004199 email vdincognito@take-care.it accredited by the Technical Committee of the International EPD® System.

The certification body Bureau Veritas Italia is the manager of the contract with Officina dell'Ambiente.