



# ENVIRONMENTAL PRODUCT DECLARATION

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

**MAPEQUICK AF D03**



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](http://www.environdec.com).

Programme:  
**The International  
EPD® System;**  
[www.environdec.com](http://www.environdec.com)

Programme  
operator:  
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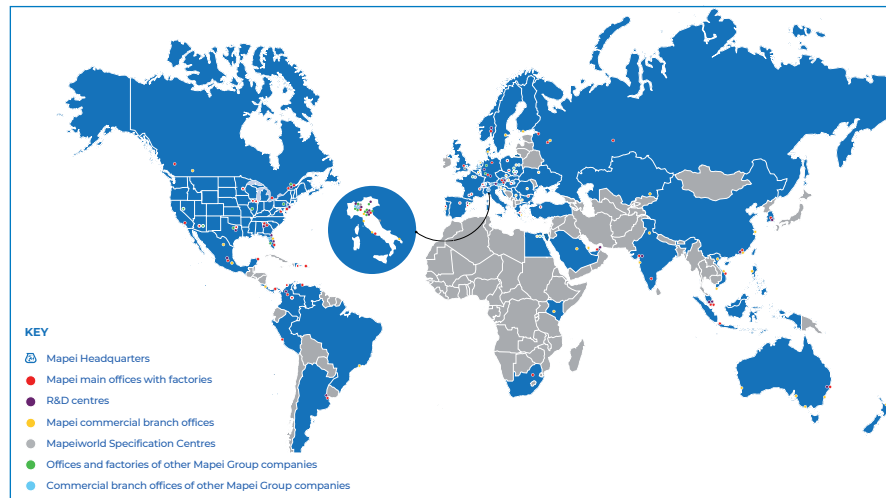


## 1. COMPANY DESCRIPTION / GOAL & SCOPE

Founded in 1937 in Milan, Italy, Mapei produces adhesives and complementary products for laying all types of floor, wall and coating materials, and also specializes in other chemical products used in the building industry, such as waterproofing products, specialty mortars, admixtures for concrete, cement additives, products for underground constructions and for the restoration of concrete and historical buildings.

There are currently 100 subsidiaries in the Mapei Group, with a total of 86 production facilities located around the world in 35 different countries and in 5 different continents. Mapei also has 31 central laboratories. Most locations are ISO 9001 and ISO 14001 or EMAS-certified.

Mapei invests 12% in its company's total workforce and 5% of its turnover in Research & Development; in particular, 70% of its R&D efforts are directed to develop eco-sustainable and environmentally friendly products, which give important contribution to all major green rating systems for eco-sustainable buildings such as LEED and BREEAM.



**LEED V4.1** is the latest version of Leadership in Environmental and Energy Design, an American protocol that enables buildings to be certified as eco-sustainable according to parameters and credits described in the most widely adopted green building criteria in the world. Issued by the GBC US, it is mandatory for all LEED projects registered after October 2016.

Numerous changes have been made to the previous version: Mapei products play a part in obtaining important credits thanks to their EPD's (type III environmental declarations) and their products with very low emission of VOC.

Launched in the UK in 1990, **BREEAM** (BRE Environmental Assessment Method) is a protocol for sustainable building practices adopted mainly in the United Kingdom and in Scandinavian countries with the version **BREEAM NOR**.

By adopting this protocol, thanks to their EPD's and very low emission of VOC, Mapei products help towards obtaining relative credits.

Furthermore, Mapei has developed a sales and technical service network with offices all over the world and offers an efficient Technical Assistance Service that is valued by architects, engineers, contractors and owners.

Mapei Nordic production site is located in Sagstua, Norway. The production site consists of 5 factories: two factories for powder-based products, two factories for liquid admixtures and one factory for thermosetting plastic-based products.

The total size of the buildings is 24.000 sqm. The energy in these factories are provided from water electricity, geothermal heating and remaining approximately 10 % heated by bio oil.

Mapei Nordic focuses both on energy and on logistic optimisation,

as for example the systematic Lean based improvement work. With 60 – 80 trailers per day, and 1650 transport lines, requires Mapei to work actively on optimizing our logistic process.

The goal of the study is to provide necessary data and documentation to produce an EPD according to the requirements of PCR Environdec (Version 1.11, 2021-02-05) under EN 15804:2012+A2:2019/AC:2021 and to have more comprehension about the environmental impacts related to **Mapequick AF D03** manufactured in Mapei AS located in Sagstua (NO), including the packaging of the finished product. Target audiences of the study are customers and other parties with an interest in the environmental impacts of **Mapequick AF D03**. This analysis shall not support comparative assertions intended to be disclosed to the public.

## 2. PRODUCT DESCRIPTION

**Mapequick AF D03** is an alkali-free, inorganic salt-based liquid accelerator, with which it is possible to produce shotcrete characterized by rapid setting times and a very quick development of its strength after only a very short curing time.

**Mapequick AF D03** is available in 1288kg IBC and bulk.

For more information see the TDS (Technical Data Sheet) on Mapei AS website ([www.mapei.com/NO](http://www.mapei.com/NO)).

## 3. CONTENT DECLARATION

The main components and ancillary materials of the product included in this EPD are the following:

Table 1: Composition referred to 1 kg of product in bulk

Materials	Percentage (%) by mass
Inorganic substances	< 55%
Organic substances	< 25%
Water	< 40%

The product does not contain a concentration higher than 0,1% (by unit weight) of either carcinogenic substances or substances of very high concern (SVHC) on the REACH Candidate List published by the European Chemicals Agency.

## 4. DECLARED UNIT AND REFERENCE SERVICE LIFE

**The declared unit is 1 kg of finished product.**

Due to the selected system boundary, the reference service life of the products is not specified.

## 5. SYSTEM BOUNDARIES AND ADDITIONAL TECHNICAL INFORMATION

The approach is “cradle to gate” (A1–A3) with optional module (A4):

- A1, A2, A3 (Product stage): extraction and processing of raw materials and packaging (A1), transportation up to the factory gate (A2), manufacturing of the finished product (A3)
- A4 (Construction process stage): transport of the finished product to final customers

Table 2: System boundaries

	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
Module	A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Modules declared	X	X	X	X	MND	MND	MND	MND	MND	MND	MND	MND	MND	MND	MND	MND	MND
Geography	EU, NO	EU	NO	EU	-	-	-	-	-	-	-	-	-	-	-	-	-
Specific data	> 90%					-	-	-	-	-	-	-	-	-	-	-	-
Variation – products	Not-relevant					-	-	-	-	-	-	-	-	-	-	-	-
Variation – sites	Not-relevant					-	-	-	-	-	-	-	-	-	-	-	-

MND: Module Not Declared

A brief description of production process is the following:

The production process starts from raw materials, that are purchased from external and intercompany suppliers and stored in the plant. Bulk raw materials are stored in specific silos and added automatically in the production mixer, according to the formula of the product. Other raw materials, supplied in bags, big bags or plastic 1000 lt IBC, are stored in their warehouse and added automatically or manually to the mixer. The production is a discontinuous process, in which all the components are mechanically mixed in batches. The semi-finished product is then packaged in plastic 1000 lt IBC or managed in bulk. The quality of final products is controlled before the sale.

Figure 1: Production process detail

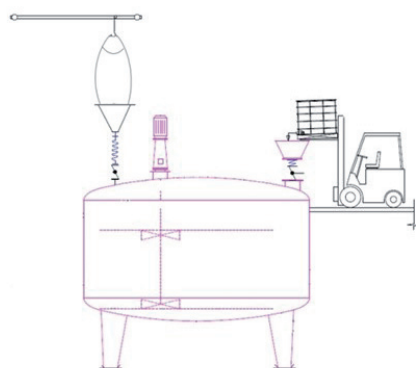


Table 3: Transport to the building site (module A4)

Scenario information*	Value	Unit
Means of transport: truck-trailer euro 6, gross weight 34-40 t, payload capacity 27 t		
Diesel consumption	0,002	l/100km
Transport distance	1000	km
Capacity utilisation (including empty runs)	85	%
Gross density of product transported	~ 1400	kg/m <sup>3</sup>
Capacity utilisation volume factor	1	-

\*This is a conservative scenario with regard to the type of truck and distance. If the finished product is delivered by an electric truck, please consider a specific GWP coming from the truck manufacturer (if available).

## 6. CUT-OFF RULES AND ALLOCATION

Criteria for the exclusion of inputs and outputs (cut-off rules) in the LCA, information modules and any additional information are intended to support an efficient calculation procedure. They are not applied in order to hide data. Cut-off criteria, where applied, are described in Table 4.

Input flows are covered for the whole formula.

Table 4: Cut-off criteria

Process excluded from study	Cut-off criteria	Quantified contribution from process
A3: production (auxiliary materials)	Less than 10 <sup>-5</sup> kg/kg of finished product	Sensitivity study demonstrates a relative contribution lower than 0,5%
A3: production (particle emission)	Less than 10 <sup>-5</sup> kg/kg of finished product	Sensitivity study demonstrates a relative contribution lower than 0,5%

For the allocation procedure and principles consider the following table (Table 5):

Table 5: Allocation procedure and principles

Module	Allocation Principle
A1	All data are referred to 1 kg of product: A1: electricity is allocated to the specific production line
A3	All data are referred to 1 kg of packaged product: A3-wastes: All data are allocated to the whole production plant

## 7. ENVIRONMENTAL PERFORMANCE AND INTERPRETATION



**GWP**

### Climate change

GWPTotal - Global Warming Potential refers to the emission/presence of GHGs (greenhouse gases) in the atmosphere (mainly CO<sub>2</sub>, N<sub>2</sub>O, CH<sub>4</sub>) which contribute to the increase in the temperature of the planet.

GWP-total considers:

- GWP-fossil
- GWP-biogenic
- GWP-luluc (land use and land use change)



**ODP**

### Ozone Depletion

Ozone Depletion Potential refers to the degradation of the stratospheric layer of the ozone involved in blocking the UV component of sunrays. Depletion is due to particularly reactive components that originate from chlorofluorocarbon (CFC) or chlorofluoromethane (CFM).



**AP**

### Acidification

Acidification Potential refers to the emission of specific acidifying substances (i.e. NO<sub>x</sub>, SO<sub>x</sub>) in the air. These substances decrease the pH of the rainfall with predictable damages to the ecosystem.



**EP**

### Eutrophication

Eutrophication Potential refers to the nutrient enrichment, which determines unbalance in ecosystems and causes the death of the fauna and decreased biodiversity in flora.

It considers:

- EP-freshwater: aquatic freshwater
- EP-marine: aquatic marine
- EP-terrestrial



**POCP**

### Photochemical ozone formation

The Photochemical Ozone Creation Potential is the ozone formation in low atmosphere. This is quite common in the cities where a great amount of pollutants (like VOC and NO<sub>x</sub>) are emitted every day (industrial emissions and vehicles). It is mainly diffused during the summertime.



**ADP  
minerals&metals**

### Depletion of abiotic resources – minerals and metals

Abiotic Depletion Potential elements refers to the depletion of the mineral resources.



**ADP - fossil**

### Depletion of abiotic resources – fossil fuel

Abiotic Depletion Potential fossil fuel refers to the depletion of the fossil fuel resources.



**WDP**

### Water use

It expresses the potential deprivation of water, that consists in not having the water needs satisfied.

The following tables show the environmental impacts for the products considered according to the requirements of EN15804:2012+A2:2019/AC:2021. The results are referred to the declared unit (see § 4). The additional environmental indicators are not declared.

NOTE: in the whole document, the comma “,” is the decimal separator, while the point “.” is the thousands separator.

## MAPEQUICK AF D03

Table 6: MAPEQUICK AF D03: Potential environmental impact – mandatory indicators according to EN 15804 referred to 1 kg of product in bulk

Indicator	Unit	A1	A2	A3	A1 – A3	A4
<b>GWP<sub>TOTAL</sub></b>	(kg CO <sub>2</sub> eq.)	7,28E-01	3,85E-02	9,41E-04	7,67E-01	5,91E-02
GWP <sub>FOSSIL</sub>	(kg CO <sub>2</sub> eq.)	7,02E-01	3,81E-02	9,32E-04	7,41E-01	5,84E-02
GWP <sub>BIOGENIC</sub>	(kg CO <sub>2</sub> eq.)	2,51E-02	1,58E-04	3,43E-06	2,53E-02	2,05E-04
GWP <sub>LULUC</sub>	(kg CO <sub>2</sub> eq.)	5,50E-04	2,95E-04	5,23E-06	8,50E-04	5,34E-04
ODP	(kg CFC 11 eq.)	1,88E-08	6,41E-14	1,43E-15	1,88E-08	5,05E-15
AP	(mol H <sup>+</sup> eq.)	5,47E-03	2,01E-04	4,80E-06	5,68E-03	6,41E-05
EP <sub>FRESHWATER</sub>	(kg P eq.)	2,74E-04	1,29E-07	2,49E-09	2,74E-04	2,10E-07
EP <sub>MARINE</sub>	(kg N eq.)	5,06E-04	7,24E-05	1,42E-06	5,80E-04	2,09E-05
EP <sub>TERRESTRIAL</sub>	(mol N eq.)	5,08E-03	8,06E-04	1,57E-05	5,91E-03	2,55E-04
POCP	(kg NMVOC eq.)	2,03E-03	1,68E-04	3,86E-06	2,20E-03	5,45E-05
ADP <sub>MINERALS&amp;METALS</sub> *	(kg Sb eq.)	5,61E-06	2,62E-09	5,01E-11	5,61E-06	3,72E-09
ADP <sub>FOSSIL</sub> *	(MJ)	1,03E+01	5,30E-01	1,24E-02	1,09E+01	7,85E-01
WDP*	(m <sup>3</sup> world eq.)	9,48E-01	1,11E-03	6,34E-05	9,49E-01	6,65E-04

**GWP<sub>TOTAL</sub>**: Global Warming Potential total; **GWP<sub>FOSSIL</sub>**: Global Warming Potential fossil fuels; **GWP<sub>BIOGENIC</sub>**: Global Warming Potential biogenic; **GWP<sub>LULUC</sub>**: Global Warming Potential land use and land use change; **ODP**: Depletion Potential of the stratospheric Ozone layer; **AP**: Acidification Potential; **EP<sub>FRESHWATER</sub>**: Eutrophication Potential, freshwater; **EP<sub>MARINE</sub>**: Eutrophication Potential, marine; **EP<sub>TERRESTRIAL</sub>**: Eutrophication Potential, terrestrial; **POCP**: Formation potential of tropospheric ozone; **ADP<sub>MINERALS&METALS</sub>**: Abiotic Depletion Potential for non-fossil resources; **ADP<sub>FOSSIL</sub>**: Abiotic Depletion Potential for fossil resources; **WDP**: Water Deprivation Potential.

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

Table 7: MAPEQUICK AF D03: Potential environmental impact – additional mandatory and voluntary indicators referred to 1 kg of product in bulk

Indicator	Unit	A1	A2	A3	A1 – A3	A4
<b>GWP-GHG</b>	(kg CO <sub>2</sub> eq.)	5,30E-01	3,76E-02	9,20E-04	5,68E-01	5,77E-02

**GWP-GHG**: 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 equal to the GWP indicator originally defined in EN 15804:2012+A1:2013.



Table 8: MAPEQUICK AF D03: Use of resources referred to 1 kg of product in bulk

Indicator	Unit	A1	A2	A3	A1 – A3	A4
PERE	MJ	9,64E-01	7,24E-02	1,55E-03	1,04E+00	5,55E-02
PERM	MJ	2,62E-03	0,00E+00	0,00E+00	2,62E-03	0,00E+00
PERT	MJ	9,66E-01	7,24E-02	1,55E-03	1,04E+00	5,55E-02
PENRE	MJ	1,03E+01	5,32E-01	1,24E-02	1,09E+01	7,87E-01
PENRM	MJ	4,32E-03	0,00E+00	0,00E+00	4,32E-03	0,00E+00
PENRT	MJ	1,03E+01	5,32E-01	1,24E-02	1,09E+01	7,87E-01
SM	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
RSF	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
NRSF	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
FW	m <sup>3</sup>	2,21E-02	6,76E-05	2,22E-06	2,22E-02	6,12E-05

**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 (primary energy and primary energy resources used as raw materials); **PENRE:** Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials; **PENRM:** Use of non-renewable primary energy resources used as raw materials; **PENRT:** Total use of non-renewable primary energy resources (primary energy and primary energy resources used as raw materials); **SM:** Use of secondary material; **RSF:** Use of renewable secondary fuels; **NRSF:** Use of non-renewable secondary fuels; **FW:** Net use of fresh water.

Table 9: MAPEQUICK AF D03: Waste production and output flows referred to 1 kg of product in bulk

Indicator	Unit	A1	A2	A3	A1 – A3	A4
HWD	kg	4,23E-08	-3,90E-12	4,30E-04	4,30E-04	2,91E-12
NHWD	kg	1,36E-03	1,19E-04	3,53E-02	3,68E-02	1,13E-04
RWD	kg	1,19E-05	1,17E-05	8,96E-08	2,37E-05	1,02E-06
Components for re-use	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Materials for recycling	kg	2,84E-06	0,00E+00	2,52E-03	2,52E-03	0,00E+00
Materials for energy recovery	kg	1,53E-04	0,00E+00	0,00E+00	1,53E-04	0,00E+00
Exported energy, electricity	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Exported energy, thermal	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00

**HWD:** Hazardous waste disposed; **NHWD:** Non-Hazardous waste disposed; **RWD:** Radioactive waste disposed

Table 10: MAPEQUICK AF D03: Information on biogenic carbon content at the factory gate referred to 1 kg of product in bulk

Biogenic Carbon Content	Unit	Quantity
Biogenic carbon content in product	kg C	0,00E+00
Biogenic carbon content in packaging	kg C	0,00E+00



Tables from 6 to 10 show absolute results for all the environmental categories considered. The **module A1** (raw materials extraction and processing) represents the highest contribution for all environmental indicators, up to 80%. The production stage (**module A3**) is negligible, while the transportation modules (**A2** and **A4**) contribute most in GWPluluc and EP.

More details about electrical mix used in this EPD, is shown below:

	Data source	GWP-GHG	Unit
Residual electricity grid mix (NO) – 2022	AIB	0,634*	kg CO <sub>2</sub> -eqv/kWh

\* CML2001 – Aug. 2016

## 8. DATA QUALITY

Table 11: Data quality

Dataset & Geographical reference	Database (source)	Temporary reference
<b>A1; A3</b>		
Organic substances	Sphera Database; ecoinvent 3.9.1;	2022
Water	Sphera Database	2022
Inorganic substances	Sphera Database ecoinvent 3.9.1	2020-2022
Residual electricity grid mix (NO)	Sphera Database	2022
Packaging components (EU)	Sphera Database; ecoinvent 3.9.1	2020 – 2022
<b>A2</b>		
Truck, Euro 5, 27t payload (GLO)	Sphera Database	2022
Light train, gross tonne weight 500t / 363t payload (GLO)	Sphera database	2022
Oceanic ship (27500 DWT – GLO)	Sphera database	2022
Diesel for transport (EU)	Sphera database	2019
Heavy Fuel Oil (EU)	Sphera database	2019
Electricity grid mix (EU)	Sphera database	2019
<b>A4</b>		
Truck, Euro 6, 27t payload (GLO)	Sphera Database	2022
Diesel for transport (EU)	Sphera Database	2019

All data included in table above refer to a period between 2019 and 2022; the most relevant ones are specific from supplier, while the others (i.e. transport and minor contribution dataset), come from European and global databases.

All dataset are not more than 10 years old according to EN 15804 §6.3.8.2 “Data quality requirements”. The Quality level concerning

datasets used in the EPD can be considered as "very good" or "good" according to Annex E of the EN 15804 (current version).

Primary data concern the year 2022 and represent the whole annual production.

## 9. ADDITIONAL INFORMATION

### 9.1 Indication for the calculation of Module A4 (Transport from the factory to the jobsite)

To calculate the impact of transporting 1 kg of product from the factory gate (Sagstua) to the jobsite, use the following formula:

$$\text{Transport Impact} = EF \text{ (kg/DU)} * \text{distance (km)}$$

*EF: Emission Factor; DU: declared Unit*

Table 12: The EFs are related to 1 kg of product transported with truck EURO 5 and EURO 6

Impact Category	Unit	EF (EURO 5)	EF (EURO 6)
<b>GWP<sub>TOTAL</sub></b>	(kg CO <sub>2</sub> eq.)/km	6,08E-05	5,96E-05
GWP <sub>FOSSIL</sub>	(kg CO <sub>2</sub> eq.) /km	6,00E-05	5,89E-05
GWP <sub>BIOGENIC</sub>	(kg CO <sub>2</sub> eq.) /km	2,15E-07	2,12E-07
GWP <sub>LULUC</sub>	(kg CO <sub>2</sub> eq.) /km	5,46E-07	5,37E-07
ODP	(kg CFC 11 eq.) /km	7,67E-18	7,55E-18
AP	(mol H+ eq.) /km	1,90E-07	7,15E-08
EP <sub>FRESHWATER</sub>	(kg P eq.) /km	2,16E-10	2,12E-10
EP <sub>MARINE</sub>	(kg N eq.) /km	8,62E-08	2,38E-08
EP <sub>TERRESTRIAL</sub>	(mol N eq.) /km	9,69E-07	2,87E-07
POCP	(kg NMVOC eq.) /km	1,72E-07	6,15E-08
ADP <sub>MINERALS&amp;METALS</sub>	(kg Sb eq.) /km	3,88E-12	3,82E-12
ADP <sub>FOSSIL</sub>	(MJ) /km	8,03E-04	7,90E-04
WDP	(m <sup>3</sup> world eq.) /km	7,12E-07	7,01E-07

Example:

If the product is transported by truck (EURO 6) from Sagstua (production plant) to Oslo (Jobsite) for approximately 90 km, the GWP impact will be:

$$GWP_{TOTAL} = 5,96E-05 * 90km = 5,36E-03 \text{ kg CO}_2\text{eq}$$

## 10. DIFFERENCES VERSUS PREVIOUS VERSION

In this revision, the product Mapequick AF-118 N has been removed. New primary data has been used for the calculation and the updated standards have been adopted. These changes result in new environmental impacts results.

## 11. VERIFICATION AND REGISTRATION

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.

CEN standard EN 15804 served as the Core Product Category Rules (PCR)	
PCR:	PCR 2019:14 Construction products (EN 15804:A2), Version 1.11, 2021-02-05, UN CPC code 54
PCR review was conducted by:	The Technical Committee of the International EPD® System. See <a href="http://www.environdec.com/TC">www.environdec.com/TC</a> for a list of members. Review chair: Claudia A. Peña, University of Concepción, Chile. The review panel may be contacted via the Secretariat <a href="http://www.environdec.com/contact">www.environdec.com/contact</a> .
Independent third-party verification of the declaration and data, according to ISO 14025:2006:	<input checked="" type="checkbox"/> EPD Process Certification <input type="checkbox"/> EPD Verification
Third party verifier:	Certiquality S.r.l. Number of accreditation: 003H rev15
Accredited or approved by:	Accredia
Procedure for follow-up of data during EPD validity involves third-party verifier	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

## 12. REFERENCES

- EN 15804: SUSTAINABILITY OF CONSTRUCTION WORKS - ENVIRONMENTAL PRODUCT DECLARATIONS - CORE RULES FOR THE PRODUCT CATEGORY OF CONSTRUCTION PRODUCTS
- EUROPEAN RESIDUAL MIXES VERSION 1.0, 2023-06-01 (AIB: ASSOCIATION OF ISSUING BODIES)
- GENERAL PROGRAMME INSTRUCTIONS OF THE INTERNATIONAL EPD® SYSTEM. VERSION 3.01
- ISO 14025 ENVIRONMENTAL LABELS AND DECLARATIONS - TYPE III ENVIRONMENTAL DECLARATIONS - PRINCIPLES AND PROCEDURES
- ISO 14044 ENVIRONMENTAL MANAGEMENT – LIFE CYCLE ASSESSMENT – REQUIREMENTS AND GUIDELINES
- PCR 2019:14 CONSTRUCTION PRODUCTS (EN 15804: A2), UN CPC CODE 54; VERSION 1.11

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