# Environmental Product Declaration

Molins CONCRETE & AGGREGATES

In accordance with ISO 14025:2006 and EN 15804:2012+A2:2019/AC:2021 for

## Dry Mortar M7,5 grey

From: *PROMOTORA MEDITERRANEA- 2*

*Scope: Spain*

EPD INTERNATIONAL EPD SYSTEM

ECO PLATFORM EPD VERIFIED

Programme: The International EPD System, www.environdec.com
Programme operator: EPD International AB
Type of EPD: EPD of a single product from a manufacturer
EPD registration number: EPD-IES-0031809-001
Version date: 2026-07-27
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*An EPD may be updated or depublished if conditions change. To find the latest version of the EPD and to confirm its validity, see www.environdec.com*

# General Information

| Programme information | |
|---|---|
| **Programme:** | The International EPD® System |
| **Address:** | EPD International AB<br>Box 210 60<br>SE-100 31 Stockholm<br>Sweden |
| **Website:** | www.environdec.com |
| **E-mail:** | support@environdec.com |

| Product Category Rules (PCR) |
|---|
| **CEN standard EN 15804 serves as the Core Product Category Rules (PCR)** |
| Product Category Rules (PCR):<br>PCR 2019:14 Construction products (EN15804:A2, version 2.01.)<br>UN CPC: 37501 |
| ***PCR review was conducted by: The Technical Committee of the International EPD System. A full list of members is available on www.environdec.com. The review panel may be contacted via support@environdec.com. Members of the Technical Committee were requested to state any potential conflict of interest with the PCR Committee, and if there were conflicts of interest they were excused from the review. Rob Rouwette (chair), Noa Meron (co-chair).*** |
| **Third-party verification** |
| Independent third-party verification of the declaration and data, according to ISO 14025:2006, via:<br>☒ Individual EPD verification with a pre-verified LCA/EPD tool<br><br>Third-party verifier: Laura Flores Rosell, Marcel Gómez Consultoría Ambiental SL, Barcelona, Spain www.marcelgomez.com / info@marcelgomez.com<br>Approved by: International EPD System<br>Pre-verified LCA tool or Pre-verified EPD tool: GCCA EPD tool for clinker, cement, aggregates, concrete and precast products (version 5.2).<br><br>Third-party verifier, accountable for the tool verification: 2014 Valid until: 2030-04-07<br>Tool verifier: Ugo Pretato and Elia Rillo Studio Fieschi & Soci Srl<br>Approved by: International EPD System |
| Procedure for follow-up of data during EPD validity involves third party verifier:<br>☐ Si ☒ No |

The EPD owner has the sole ownership, liability, and responsibility for the EPD.
EPDs within the same product category but published in different EPD programmes, may not be comparable. For two EPDs to be comparable, they shall be based on the same PCR (including the same version number up to the first two digits) or be based on fully aligned 3 PCRs or versions of PCRs; cover products with identical functions, technical performances and use (e.g. identical declared/functional units); have identical scope in terms of included life-cycle stages (unless the excluded life-cycle stage is demonstrated to be insignificant); apply identical impact assessment methods (including the same version of characterisation factors); and be valid at the time of comparison.
For further information about comparability, see EN 15804 and ISO 14025.

# Information about EPD Owner

## Owner of the EPD:

MOLINS CONCRETE & AGGREGATES
Address: Crta N-340, Km 1363,4; 08620 Sant Vicenç dels Horts, Barcelona, Spain

## Contact:

MOLINS CONCRETE & AGGREGATES
Tel: +34 93 680 60 00

## Description of the organisation

Molins Concrete & Aggregates (Molins C&A) is a MOLINS business with over 75 years of experience in the construction sector. Customer satisfaction and the quality of our products and services are fundamental values. To achieve this, we have a dedicated team responsible for quality control, production, transportation, and application of our products, ensuring the best possible service. We are innovative, we embrace challenges, and we work to develop customized products, always focused on providing solutions for our customers.
Molins C&A main activities focus on:
- Concrete: We manufacture all types of concrete, including standard and technological concretes, structural concrete, pavement concrete, self-leveling concrete, self-compacting concrete, etc. We also develop and design special products for specific construction needs.

- Aggregates: Strict control of raw materials allows us to own our own quarries, gravel pits, and crushing plants, from which we obtain all types of aggregates, the raw materials for our products.

- Mortar: We manufacture and sell mortar in various formats, including bulk, bagged, and siloed.

- Environment: We manage, treat, and recover waste. We operate controlled inert waste landfills and recycling plants.

- On-site services: We offer pumping and application of paving materials, construction of structures, stabilization of exterior soils, and personalized technical consulting.

## Product-related or management systems-related certifications

The company has the CE marking of all the products subject to this EPD Nº certificate: 0370-CPR-0325

# Product information

## Product name: Dry mortar M-7,5 grey

Product identification: Dry mortar for use in traditional masonry work and plastering in the construction sector.

Visual representation of the product:

### UN CPC Code:

37510. Non-refractory mortars

### Product description:

Mortars are defined as a mixture of cement, aggregates, and admixtures used in traditional masonry work. Their intended uses include general masonry work and plastering. This mortar is sold in a dry state, which is mixed with water on-site.

### Name and location of production site:

This EPD is based on production data from the 1 mortar plant that MOLINS C&A has in Spain: **GARRAF PLANT, Crta C-31 Km 172,5, 08870 Sitges**

References to any relevant websites for more information or explanatory materials:
www.molins.es

### Regulations applicable to the product:

Manufactured according to UNE-EN-998-2 Standard Specifications for masonry mortars, and UNE EN 988-1 Standards Specifications for mortars for plastering where the technical characteristics are specified.

| **Designation product** | **Dry mortar M 7,5** |
|---|---|
| Compressive strength at 28 days | > 7,5 N/mm$^2$ |
| Flexural strength at 28 days | > 2,5 N/mm$^2$ |
| Fresh air content | 9-15 % |
| Water-soluble chloride content | < 0,02 % |
| Adhesion strength | 0,15 N/mm$^2$ |
| Water absorption coefficient by capillarity | 0,2-0,7 (Kg/(m$^2$·min 0.5)) |
| Water vapour permeability coefficient | 9,6/10 (μ) |
| Dry bulk density | 1900 +-100 (Kg/m$^3$) |
| Thermal conductivity | 0,82 P=50% (W/m·K) |
| Reaction to fire | A1 |

# Content declaration

The mass (weight) of one unit of a product, as purchased or per declared unit: 1 t

The quantities reflect the average composition of the raw materials used for the reference mortar

| Product content | Mass, kg | Post-consumer recycled material, mass, -% of product | Biogenic material mass, % of product | Biogenic material, kg C/declared unit |
|---|---|---|---|---|
| CEM I 52,5R* | 80-84 | 5% | 0 | 0 |
| Fines Aggregates | 830-910 | 0 | 0 | 0 |
| Filler | 20-85 | 0 | 0 | 0 |
| Admixtures | 01-2 | 0 | 0 | 0 |
| **Total** | **1000** | **0** | **0** | **0** |
| *25,4% of cement is pre-consumer | | | | |

| Packaging materials | Mass, kg | Mass-% (versus the product) | Biogenic material, kg C/declared unit |
|---|---|---|---|
| Papper bags | 1,38 | 0,14% | 0,69 |
| Pallets | 6,09 | 0,61% | 3,01 |
| Plastic film | 0,01 | 0 | 0 |
| **TOTAL** | **7,4** | **0,75%** | **4,44** |

1 kg biogenic carbon in the product/packaging is equivalent to the uptake of 44/12 kg of $CO_2$. There is a biogenic carbon content in the packaging materials (paper bags and pallets), but it is considered negligible, representing less than 5% of the product mass.

**Dangerous substances from the candidate list of SVHC for Authorisation**

At the date of issue of this declaration, there is no “Substance of Very High Concern” (SVHC) in concentration above 0,1% by weight, in product or packaging, following the European REACH regulation (Registration, Evaluation, Authorization and Restriction of Chemicals).

# LCA Information

## Declared unit

1 t of dry mortar (density 2000+-100 kg/m$^3$)

## Reference service life:

Not relevant due to the cradle-to-gate boundary conditions.
The reference service life is linked to the reference service life of the products and elements in which it is integrated, since the masonry mortar or plaster alone is not identifiable or separable on site.

## Time representativeness:

The data obtained from the entire production process refers to the production of mortar for the entire year 2025 (1st January - 31st December). The quantity of raw materials (cement, aggregates, admixtures) was obtained from the specific dosage of the referenced mortar.
It is considered that the data used accurately represents production in subsequent periods given the similarity of materials and processes.

## Geographical scope:

Spain for all materials and manufacturing and Europe for end-of-life
The products studied are manufactured in Spain, but can be used at a European level.

## Database(s) and LCA software used:

The LCA was performed using an attributional approach in accordance with EN 15804:2012+A2:2019/AC:2021 and the General Programme Instructions of International EPD System v5.0.1. Environmental impact results are calculated using the EN 15804 reference package based on EF version 3.1., and are therefore aligned with EF v3.1 characterization factors.

The database used for the LCA uses data from ecoinvent v3.10 and its own factors adapted by the GCCA. The tool meets the requirements of the International EPD® System (www.environdec.com) and is prepared for cement, clinker, aggregates, concrete and precast products

LCA tool used: GCCA Industry tool EPD for Cement, Concrete (v 5.2). https://www.concrete-epdtool.org/intl. Global Cement and Concrete Association (GCCA), https://gccassociation.org/
The Tool (v 5.2) has been developed by Quantis Tel: +41 21 353 5910 E-mail: hello@quantisintl.com Web: www.quantis-intl.com and verified by Studio Fieschi & Soci Srl. in 2023.
LCA Model (Green Delta): International v.5.2, 2025-07-17. Database: ver. 5.2 (Ecoinvent v.3.10)

## Description of system boundaries:

This EPD evaluates the environmental impacts of the production of one (1) t of dry mixed mortars, and covers the product stage Cradle to gate with modules C1–C4 and module D (A1–A3 + C + D)

## Assumptions:

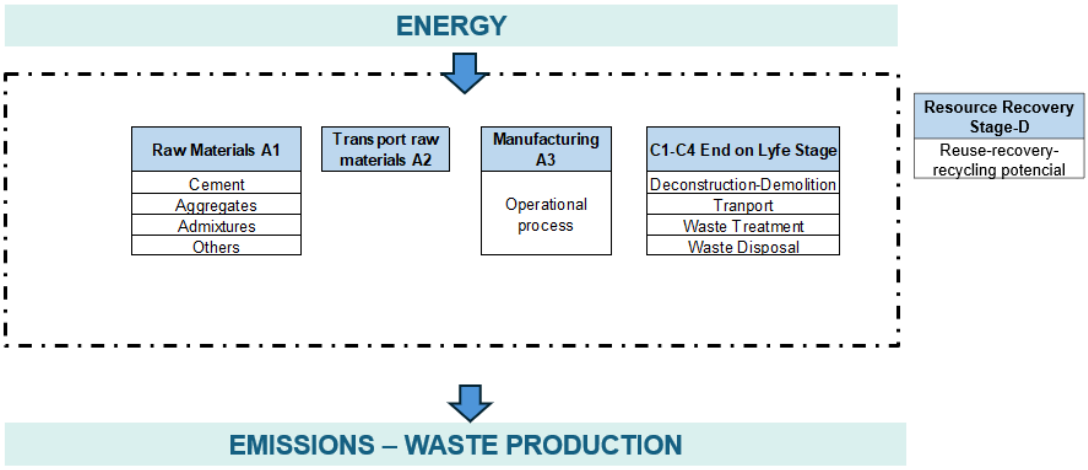
This EPD process is certified using the international GCCA model for energy use and environmental impact to obtain an accurate estimate for the manufactured products.

- Predefined cement data provided by the EPD used for the cement manufactured in Molins. (GlobalEPD EN 16908-171)
- All modelling assumptions adopted from the GCCA tool
- Raw materials and transport distance are generated from ERP data

- The mortar mix design was defined using the companies previously verified, automated ERP system.
- Although the dried mortar is stored in silos, the packaging was also taken into account.

The materials used for packaging the mortars are:
i) wooden pallets
ii) paper bags
iii) plastic film
Using 2025 mortar sales figures, the impact of packaging was incorporated into the final results. Sales of bagged mortars were separated from bulk sales, and the average weighted load per packaging was calculated. Therefore, the results include both bulk and bagged mortar sales.

## Process Flow Diagram:




## Cut-off rules:

The cut-off criteria have been updated in accordance with PCR 2019:14 v2.0.1, Section 4.4. At least 99% of mass and energy flows are included at unit process level and at least 95% per life cycle stages; excluded flows are documented and considered negligible.
The data used in each section are documented.

The following processes have been excluded due to their very insignificant impact:
• Manufacturing of the equipment used in the process, infrastructure, or other assets.
• Processes related to travel or other worker activities.
• Long-term emissions: Emissions occurring beyond the 100-year assessment period have been excluded, in line with EN 15804 requirements.
• Packaging of raw materials (A1): Raw materials are delivered to the plant in bulk.

• Research and development activities: Research and development activities are excluded, as they are not directly related to the manufacturing process of the declared product, in accordance with PCR 2019:14.
The declaration of biogenic carbon is omitted from both the product and the packaging since, due to the nature of the product, both are well below the 5% limit relative to the total mass of the product, as indicated in the EN 15804:2012+A2:2019/AC:2021

## Allocations:

The polluter pays principle and the principles of modularity have been followed.

Three allocation rules are applied:
1) Raw materials required for manufacturing are allocated based on the mass of the declared unit. The calculations are based on production data for the total annual output of the manufacturing plant, which are allocated to the declared product according to actual production volumes.
2) Energy required for manufacturing is allocated in MJ per total mass of production during the period.
3) Calculation rules for averaging data: product variation has no impact.
4) No co-product allocation was required, as no co-products are generated in the manufacturing process and all inputs and outputs are directly attributable to the declared product.

## Data quality:

The data supporting this EPD refers to a unique product and a single manufacturing site with the data criteria specified in EN 15804:2012+A2:2019/AC:2021
The data quality assessment has been performed in accordance with EN 15804:2012+A2:2019/AC:2021, EN 15941, and PCR 2019:14, Section 4.6.5. The assessment follows the UN Environment Global Guidance on LCA Database Development, as provided in Table E.1 of Annex E of EN 15804.
A summary of the data quality assessment is included in the LCA section of the EPD, in line with EN 15941, Section 7.3.3. Primary data have been collected for the manufacturing process (module A3) for the reference year 2025, covering a full one-year data collection period. Secondary data were sourced from ecoinvent v3.10 and sector-specific datasets included in the GCCA EPD Tool.
The summary includes the share of primary and secondary data based on the contribution to the GWP-GHG indicator, as well as qualitative scores for technological, geographical and temporal representativeness. No dataset rated as poor or very poor, or fair while contributing more than 30 % to any core environmental indicator, has been identified.
The data are considered representative in terms of technology, geography and time, and suitable for the intended use of the EPD.

The quality of the reference data has been assessed and is considered very good.

## Modules declared, geographical scope, share of primary data (in GWP-GHG results) and data variation (in GWP-GHG results):

| | Product stage | | | Construction process stage | | Use stage | | | | | | | End of life stage | | | | Beyond product life cycle |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 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 | ND | ND | ND | ND | ND | ND | ND | ND | ND | X | X | X | X | X |
| Geography | ES | ES | ES | - | - | - | - | - | - | - | - | - | EU | EU | EU | EU | EU |
| Share of primary data: | 79,6% GWP-GHG | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Variation of products: | 0% | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Variation of sites: | 0% | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

X: Module declared ES: Spain; EU: Europe; ND: Module Not declared

The share of primary data contributing to the GWP-GHG results for modules A1–A3 is 79,6%, calculated in accordance with Annex A5.4 of GPI v5.0.1.

The proportion of primary data is calculated based on the GWP-GHG results. It is a simplified indicator of data quality that does not capture all relevant aspects of quality.

| Process | Type of source | Source | Reference year | Data category | Share of primary data, of GWP-GHG results for A1-A3 |
|---|---|---|---|---|---|
| Cement | Collected data | EPD Owner CEM I 52,R GlobalEPD EN16908-171 | 2026 | Primary data | 78,9% |
| Energy used to manufacturing | Collected data, data base | Ecoinvent v3,10 | 2025 | Primary data | 0,2% |
| Transport raw materials | Collected data, data base | Ecoinvent v3,10 | 2025 | Primary data | 0,6% |
| Waste | Collected data, data base | Ecoinvent v3,10 | 2025 | Primary data | 0,0% |
| **Total share of primary data, of GWP-GHG results for A1-A3** | | | | | **79,6%** |

# A1-A3: Product Stage

## A1: Raw materials supply.

This module analyses the extraction and processing of raw materials and the associated energy consumption prior to mortar manufacturing. Primary data has been used for cement CEM I 52.5R (GlobalEPD EN16908-171) manufactured by MOLINS, which is the main raw material in our process.

## A2: Transport

This module includes the transport, with the specific distances, of the different raw materials from the suppliers to the mortar plant.

| PARAMETER | VALUE/ DESCRIPTION |
|---|---|
| Mode of transportation | Cement is supplied in trucks (trucks > 32t, EURO 6 have been considered for all materials, except admixtures, where trucks 16-32t/ EURO 6 have been considered).<br>The transport of aggregates and filler is carried out directly from the quarry, using conveyor belts, without truck transport. |
| Distance of materials. | Distance between the supplier centre to the mortar plant. All suppliers are located within the Spanish geographical area. |

## A3: Manufacturing

This model includes energy and water consumption during the dry mortar manufacturing process, as well as the transport and management of waste generated at the factory.

Product packaging: Packaging associated with the declared product is included in module A3 (manufacturing stage). Approximately 57 % of the mortar is supplied in bags, while the remaining share is supplied in bulk. The packaging system has been modelled based on real production and distribution data.

The electrical mix data is the specific mix acquired from the electricity supplier, demonstrated by a Guarantee of Origin. The final electrical mix is the consumption data for all production in 2025. Electricity consumed is mix 38,36% hydro and 61,64% wind, in 2025.

In the case of energy consumption, the climate impact calculated for phase A3 following this allocation method has been 0,049 $kgCO_2eq/kWh$, using the GWP- GHG indicator.

| PARAMETER | VALUE/ DESCRIPTION |
|---|---|
| Energy | Specific real consumption data |
| Water consumption | Without water consumption |
| Waste management | No significant production waste is generated during the dry mortar manufacturing process. Minor waste flows (e.g. from raw material packaging such as admixtures) are negligible and are covered by cut-off rules in accordance with EN 15804 and PCR 2019:14. |

# C End of life stage

## C1: Deconstruction/Demolition

At the end of its useful life, the product will be removed during demolition. Module C1 energy use was modelled using the default value of 1.1 kWh/t in accordance with Table 4 on the PCR 2019:14 v2.0.1. assumed to be consumed by construction machinery. This demand was converted to an equivalent diesel consumption (0,11 l/t) and modelled using the ecoinvent v3.10 process “Diesel, burned in building machine”.

## C2: Transport

A default distance of 80km between building where the product was installed and the waste manager has been considered, in accordance with Table 4 on the PCR 2019:14 v2.0.1

## C3: Waste management for reuse, recovery and recycling

No value has been assigned due that there is no selective separation of materials in this type of product.

## C4: Disposal

In this case, it’s assumed that 100% of waste is deposited in a landfill, a default diesel consumption of 1,6 kWh/t has been considered, in accordance with Table 4 on the PCR 2019:14 v2.0.1.

| PARAMETER | VALUE/DESCRIPTION |
|---|---|
| Collection process specified by type | 0 kg collected separately |
| | 1 kg collected with mixed construction waste |
| Waste recovery process | 0%for reuse |
| | 0% for recycling |
| | 0% for recovery |
| Waste disposal | 100% landfill |
| Assumption for scenario development (e.g. transportation) | By truck 16-32 t (EURO 5), Distance 80 km |

# D. Reuse-recovery-recycling potential

Due to the characteristics of the product and its corresponding application in buildings in the construction sector it is determined that there are no environmental benefits beyond the system boundary, therefore the value of modulus D is zero.

# ENVIRONMENTAL PERFORMANCE

## LCA results of the product - main environmental performance results

The following table contains the environmental indicators for 1 t of the product dry mortar (2000+-100 kg/m³) of M-7,5 grey.

The estimated impact results are only relative statements, which do not indicate the endpoints of the impact categories, exceeding threshold values, safety margins and/or risks.

## Mandatory impact category indicators according to EN 15804

| Results per declared unit | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Indicator** | **Unit** | **A1-A3** | **C1** | **C2** | **C3** | **C4** | **D** |
| GWP-fossil | kg $CO_2$ eq. | 6,56E+1 | 3,90E-1 | 1,57E+1 | 0,00E+0 | 5,67E-1 | 0,00E+0 |
| GWP-biogenic | kg $CO_2$ eq. | 7,40E-3 | 4,26E-5 | 3,49E-4 | 0,00E+0 | 6,20E-5 | 0,00E+0 |
| GWP-luluc | kg $CO_2$ eq. | 3,04E-2 | 3,39E-5 | 6,21E-3 | 0,00E+0 | 4,93E-5 | 0,00E+0 |
| **GWP-total** | **kg $CO_2$ eq.** | **6,57E+1** | **3,90E-1** | **1,57E+1** | **0,00E+0** | **5,67E-1** | **0,00E+0** |
| ODP | kg CFC 11 eq. | 2,33E-7 | 5,97E-9 | 2,18E-7 | 0,00E+0 | 8,68E-9 | 0,00E+0 |
| AP | mol H+ eq. | 1,19E-1 | 3,52E-3 | 5,22E-2 | 0,00E+0 | 5,12E-3 | 0,00E+0 |
| EP-freshwater | kg P eq. | 1,95E-3 | 1,14E-5 | 1,23E-3 | 0,00E+0 | 1,66E-5 | 0,00E+0 |
| EP-marine | kg N eq. | 5,75E-2 | 1,63E-3 | 1,69E-2 | 0,00E+0 | 2,37E-3 | 0,00E+0 |
| EP-terrestrial | mol N eq. | 3,98E-1 | 1,79E-2 | 1,84E-1 | 0,00E+0 | 2,60E-2 | 0,00E+0 |
| POCP | kg NMVOC eq. | 1,77E-1 | 5,33E-3 | 7,26E-2 | 0,00E+0 | 7,75E-3 | 0,00E+0 |
| ADP-minerals&metals ** | kg Sb eq. | 1,02E-4 | 1,43E-7 | 5,14E-5 | 0,00E+0 | 2,08E-7 | 0,00E+0 |
| ADP-fossil** | MJ, net calorific value | 3,56E+2 | 5,10E+0 | 2,19E+2 | 0,00E+0 | 7,42E+0 | 0,00E+0 |
| WDP** | m³ world eq. deprived | 5,74E+0 | 1,25E-2 | 9,88E-1 | 0,00E+0 | 1,82E-2 | 0,00E+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 | | | | | | |

** The results of this Environmental Impact indicator should be used with caution due to the large uncertainties involved and the limited experience with this indicator.

## Additional mandatory and voluntary impact category indicators

| Results per declared unit | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Indicator** | **Unit** | **A1-A3** | **C1** | **C2** | **C3** | **C4** | **D** |
| GWP-GHG(1) | kg $CO_2$ eq. | 6,57E+1 | 3,90E-1 | 1,57E+1 | 0,00E+0 | 5,67E-1 | 0,00E+0 |
| Acronyms | GWP-GHG: Global Warming Potential- Greenhouse gases | | | | | | |

(1) This indicator accounts for all greenhouse gases except biogenic carbon dioxide uptake and emissions and biogenic carbon stored in the product. As such, the indicator is identical to GWP-total except that the CF for biogenic $CO_2$ is set to zero.

## Resource use indicators

| Results per declared unit | | | | | | | |
|---|---|---|---|---|---|---|---|
| Indicator | Unit | A1-A3 | C1 | C2 | C3 | C4 | D |
| PERE | MJ, net calorific value | 1,15E+2 | 3,13E-2 | 2,88E+0 | 0,00E+0 | 4,55E-2 | 0,00E+0 |
| PERM | MJ, net calorific value | 1,96E+2 | 0,00E+0 | 0,00E+0 | 0,00E+0 | 0,00E+0 | 0,00E+0 |
| PERT | MJ, net calorific value | 3,11E+2 | 3,13E-2 | 2,88E+0 | 0,00E+0 | 4,55E-2 | 0,00E+0 |
| PENRE | MJ, net calorific value | 3,59E+2 | 5,10E+0 | 2,19E+2 | 0,00E+0 | 7,42E+0 | 0,00E+0 |
| PENRM | MJ, net calorific value | 3,59E-1 | 0,00E+0 | 0,00E+0 | 0,00E+0 | 0,00E+0 | 0,00E+0 |
| PENRT | MJ, net calorific value | 3,59E+2 | 5,10E+0 | 2,19E+2 | 0,00E+0 | 7,42E+0 | 0,00E+0 |
| SM | kg | 2,55E+1 | 0,00E+0 | 0,00E+0 | 0,00E+0 | 0,00E+0 | 0,00E+0 |
| RSF | MJ, net calorific value | 8,00E+1 | 3,07E-2 | 0,00E+0 | 0,00E+0 | 4,47E-2 | 0,00E+0 |
| NRSF | MJ, net calorific value | 4,83E+1 | 5,25E+0 | 0,00E+0 | 0,00E+0 | 7,64E+0 | 0,00E+0 |
| FW | $m^3$ | 2,14E+0 | 3,32E-4 | 2,84E-2 | 0,00E+0 | 4,82E-4 | 0,00E+0 |
| Acronyms | PERE (Use of renewable primary energy excluding renewable primary energy resources used as raw materials); PENRE (Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials); SM (Use of secondary materials), RSF (Use of renewable secondary fuels); NRSF (Use of non-renewable secondary fuels); PERM (Use of renewable primary energy resources used as raw materials); PERT (Total use of renewable primary energy resources); PENRM (Use of non-renewable primary energy resources used as raw materials); PENRT (Total use of non-renewable primary energy resources); FW (Net use of fresh water) | | | | | | |

## Waste indicators

| Results per declared unit | | | | | | | |
|---|---|---|---|---|---|---|---|
| Indicador | Unit | A1-A3 | C1 | C2 | C3 | C4 | D |
| Hazardous waste disposed | kg | 6,14E-3 | 0,00E+0 | 0,00E+0 | 0,00E+0 | 0,00E+0 | 0,00E+0 |
| Non-hazardous waste disposed | kg | 1,39E+0 | 0,00E+0 | 0,00E+0 | 0,00E+0 | 1,00E+3 | 0,00E+0 |
| Radioactive waste disposed | kg | 1,36E-3 | 5,61E-7 | 4,42E-5 | 0,00E+0 | 8,16E-7 | 0,00E+0 |

## Output flow indicators

| Results per declared unit | | | | | | | |
|---|---|---|---|---|---|---|---|
| Indicator | Unit | A1-A3 | C1 | C2 | C3 | C4 | D |
| Components for re-use | kg | 0,00E+0 | 0,00E+0 | 0,00E+0 | 0,00E+0 | 0,00E+0 | 0,00E+0 |
| Material for recycling | kg | 0,00E+0 | 0,00E+0 | 0,00E+0 | 0,00E+0 | 0,00E+0 | 0,00E+0 |
| Materials for energy recovery | kg | 0,00E+0 | 0,00E+0 | 0,00E+0 | 0,00E+0 | 0,00E+0 | 0,00E+0 |
| Exported energy, electricity | MJ | 0,00E+0 | 0,00E+0 | 0,00E+0 | 0,00E+0 | 0,00E+0 | 0,00E+0 |
| Exported energy, thermal | MJ | 0,00E+0 | 0,00E+0 | 0,00E+0 | 0,00E+0 | 0,00E+0 | 0,00E+0 |

# Additional Environmental Information

No relevant information

# Abbreviations

| Abbreviation | Definition |
|---|---|
| General Abbreviations | |
| c-PCR | Complementary Product Category Rules |
| CEN | European Committee for Standardization |
| CFC-11 eq. | Chlorofluorocarbon-11 Equivalents |
| $CO_2$ eq. | Carbon Dioxide Equivalents |
| CPC | Central product classification |
| EN | European Norm (Standard) |
| EPD | Environmental Product Declaration |
| GB | Global |
| GPI | General Programme Instructions |
| ISO | International Organization for Standardization |
| kg | Kilograms |
| t | tonne |
| LCA | Life Cycle Assessment |
| $m^3$ | Cubic Meter |
| MJ | Megajoule |
| N eq. | Nitrogen Equivalents |
| ND | Not Declared |
| NMVOC | Non-Methane Volatile Organic Compounds |
| PCR | Product Category Rules |
| P eq. | Phosphorus Equivalents |
| SP | Spain |
| SVHC | Substances of Very High Concern |
| Sb eq. | Antimony Equivalents |
| Environmental Impact Indicators (EN 15804) | |
| GWP | Global warming potential |
| GWP-luluc | Global warming potential- land use and land use change |
| ODP | Ozone depletion potential |
| AP | Acidification Potential |
| EP | Eutrophication potential (for freshwater, marine, terrestrial compartments) |
| POCP | Photochemical ozone creation potential |
| ADP | Abiotic depletion potential |
| WDP | Water deprivation potential |

| | |
|---|---|
| GWP-GHG | Global warming potential- accounts for all greenhouse gases except biogenic CO2 uptake and emissions and biogenic carbon stored in the product and/or the packaging. |
| PM | Particulate Matter |

| | |
|---|---|
| IRP | Ionizing radiation Potential |
| ETP-FW | Ecotoxicity Potential- freshwaters |
| HTP-C | Human Toxicity potential- Cancer |
| HTP-NC | Human Toxicity potential- Non-Cancer |
| SPQ | Index of soil quality potential |
| PERE | Use of primary energy excluding renewable primary energy resources used as raw materials |
| PERM | Use of renewable primary energy resources used as raw materials |
| PERT | Use of 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 | Use of Total use of non-renewable primary energy resources |
| SM | Use of secondary materials |
| RSF | Use of renewable secondary fuels |
| NRSF | Use of non-renewable secondary fuels |
| FW | Use of fresh water (net) |
| HW | Hazardous Waste (disposed) (kg) |
| NHW | Non-Hazardous Waste (disposed) (kg) |
| RW | Radioactive Waste (disposed) (kg) |
| CFR | Components for Reuse (kg) |
| MR | Material for Recycling (kg) |
| MER | Materials for Energy Recovery (kg) |
| EEE | Exported Energy, Electricity (MJ) |
| EET | Exported Energy, Thermal (MJ) |

# References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- EN 998-1:2016 (Specification for mortar for masonry – Part 1: Rendering and plastering mortar)
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# Version History

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EPD
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