

ENVIRONMENTAL PRODUCT DECLARATION

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

Gypsum Plaster

by ABS Gypsum

This EPD covers multiple products, based on the worst-case results of the product group



Programme: The International EPD® System
www.environdec.com

Programme Operator: EPD International AB

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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.

The EPD covers multiple products:

Joint Filler For Plasterboards, Gypsum Based Adhesive, Stucco Plaster, Cornice Plaster, M-19 Gypsum Spray Plaster, M-25 Projection Gypsum Plaster, M-95 Gypsum Spray Plaster, M110 Makine Sıva Alçısı, Saten Perdah Alçısı, Sıva 1982 Perlitli Sıva Alçısı



Programme Information

The International EPD® System: EPD International AB Box 210 60 SE-100 31 Stockholm, Sweden, info@environdec.com

Product Category Rules (PCR)

CEN standard EN 15804 serves as the core Product Category Rules (PCR), PCR 2019:14 Construction products, version 1.3.4, Construction EN 15804:2012+A2:2019/AC:2021 Sustainability of Construction Works

PCR review was conducted by: The Technical Committee of the International EPD® System. Review chair: Claudia A. Peña, University of Concepción, Chile

For further information about comparability, see EN 15804 and ISO 14025.

External and independent ('third-party') verification of the declaration and data, according to ISO 14025:2006, via: EPD verification through an individual EPD verification

Third party individual verifier: Agnieszka Pikus, Greenwise

Approved by: The International EPD® System

Procedure for follow-up of data during EPD validity involves third party verifier:

Yes No **X**

Life Cycle Assessment (LCA) accountability: Orhan Atacan - Metsims Sustainability Consulting

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EPDs within the same product category but registered in different EPD programmes may not be comparable. For two EPDs to be comparable, they must be based on the same PCR (including the same version number) or be based on fully-aligned PCRs or versions of PCRs; cover products with identical functions, technical performances and use (e.g. identical declared/functional units); have equivalent system boundaries and descriptions of data; apply equivalent data quality requirements, methods of data collection, and allocation methods; apply identical cut-off rules and impact assessment methods (including the same version of characterisation factors); have equivalent content declarations; and be valid at the time of comparison. The EPD owner has the sole ownership, liability, and responsibility for this EPD.

The International EPD® System
EPD International AB Box 210 60 SE-100 31 Stockholm, Sweden
www.environdec.com

How to Read This EPD?



An Environmental Product Declaration (EPD) is an ISO Type III Environmental Declaration based on ISO 14025 standard. An EPD transparently reports the environmental performance of products or services from a lifecycle perspective. The preparation of an EPD includes different stages, from acquiring raw materials to the end of life of the final product/service. EPDs are based on international standards and consider the entire value chain. Additionally, EPD is a third-party verified document. This EPD includes several sections described below.

1. General and Program Information

The first part of an EPD has information about the name of the manufacturer and product/service and other general information such as the validity and expiration dates of the document, the name of the program operator, geographical scope, etc. The second page states the standards followed and gives information about the program operator, third-party verifier, etc. The followed Product Category Rule (PCR) is indicated on the second page.

2. Company and Product/Service Information

Information about the company and the investigated product is given in this section. It summarizes the characteristics of the product provided by the manufacturer. It also includes information about the product such as product composition and packaging.

3. LCA Information

LCA information is one of the most important parts of the EPD as it describes the functional/ declared unit, time representativeness of the study, database(s) and LCA software, along with system boundaries. The table presented in this part has columns for each stage in the life cycle. The considered stages are marked 'X' whereas the ones that are not declared are labeled as 'ND'. Not all EPDs consider the full life cycle assessment for a product's entire life stages. The 'System Boundary' page is also the place where one can find detailed information about the stages and the assumptions made.

4. LCA Results

The results of the Life Cycle Assessment analysis are presented in table format. The first column in each table indicates the name of the impact category and their measurement units are presented in the second column. These tables show an amount at each life cycle stage to see the impact of different indicators on different stages. Each impact can be understood as what is released through the production of the declared unit of the material—in this case, life time of electricity generator set. The first impact in the table is global warming potential (GWP), which shows how much CO2 is released at each stage. Other impacts include eutrophication potential, acidification potential, ozone layer depletion, land use related impacts, etc. The second table provides results for resource use and the third table is about the waste produced during the production. The fourth and final table shows the results for the GWP-GHG indicator, which is almost equivalent to the GWP-Total indicator mentioned previously. The only difference is that this indicator excludes the biogenic carbon content by following a certain methodology.

About ABS Gypsum



Owner of the EPD: ABS Gypsum

Head Office: Küçükbakkalköy Mah. Merdivenköy Yolu Cad. No:6 34750 İstanbul/Türkiye

Production Plant: Atalar Mh., Abs Alçı Fbr., 33400 Yenice Bld. Tarsus/Mersin/ Türkiye

ABS Gypsum’s vision is to produce high technology and quality products for the buildings of the future with durable natural and healthy gypsum-based materials that allow freedom and convenience in design. ABS Gypsum is the first producer of satin plaster in the world and Türkiye’s first industrial plaster and first&only ultralight and sustainable plasterboards.

ABS Gypsum continues its production with more than 60 years of experience in the plaster industry in line with its goal of sustainable leadership in quality. ABS Gypsum started production in 1982 in Bilecik/Bozüyük and now has production facilities in 6 locations in Türkiye; Ankara/Gölbaşı, Mersin/Tarsus, Erzurum/Aşkale, Sivas/ Demirağ Organize Sanayi and a powder gypsum plant in Ukraine/Çernovtsi. The company has an another gypsum brand namely BMT Gypsum operating also in Sivas since 2004.

The ultralight plasterboard Intreme FiT was awarded the Silver Plumb in the “Innovative Product” category in the 27th Golden Plumb International Building Catalogue Awards in 2021. Türkiye’s first sustainable & ultralight exterior plasterboard Extreme was awarded twice in the “Collaboration” category at the Sustainable Business Awards in 2023 and in the “Sustainable Collaboration” category at the “Green Transformation Awards” organized by the İstanbul Chamber of Industry in 2024.

Product Information

- ABS Joint Filler for Plasterboard:** A gypsum based setting material for bulk and secondary filling of plasterboard joints.
- ABS Gypsum Based Adhesive:** Gypsum based adhesive for plasterboards.
- ABS Stucco Plaster:** Gypsum plaster providing easy, fast finish for small holes, patches and cracks.
- ABS Cornice Plaster:** Gypsum plaster used in castings of all kinds of decorative shapes, molding and assembly works in interiors.
- ABS Gypsum Spray Plaster:** M19 Gypsum Spray Plaster, is a gypsum based plaster applied with a plastering machine.
- ABS M25 Projection Gypsum Plaster:** M25 projection gypsum plaster is a gypsum based plaster with a lightweight formula applied by a plastering machine.
- ABS M95 Gypsum Spray Plaster:** M95 Gypsum Spray Plaster, is a gypsum based plaster applied with a plastering machine.
- ABS M110 Machine Plaster:** M110 Machine Plaster is a gypsum-based ready-mixed plaster applied by a plastering machine increaing the fire resistance of the applied surface.
- ABS Saten Finishing Plaster:** Gypsum finishing plaster suitable for thin layer application forming a smooth surface.
- ABS Siva 1982 Gypsum Plaster:** ABS Siva 1982 Gypsum Plaster is a gypsum based plaster suitable for hand application.

The EPD is a group EPD and based on the worst-case approach according to environmental impacts. The criterion for defining the worst-case product is mainly based on the declared environmental performance indicator. The heaviest product in the product group was taken as reference.

The product UN CPC code is 37530 according to Central Product Classification (CPC) Version 2.1.

Technical Specifications*

Property	Value
Water / Gypsum Ratio	6.2-7.2 lt water for 10 kg M25
Initial Set	>50 minutes (Complies with TS EN 13279-1)
Final Set	220-240 minutes
Consumption Amount	7.5-8 kg/m² per 1cm of thickness
Pressure Strength	≥20 kgf/cm² (4x4 block)
Flexural Rapture Resistance	≥10 kgf/cm² (4x4x16 block)
Loose Unit Volume Weight (powder)	650-700 kg/m³
Dry Unit Volume Weight	900-950 kg/m³
Thermal Conductivity Value	0.30 W/mK
Class of Reaction to Fire	A1
Standard	TS EN 13279-1
Type	B4/50/2



* Technical specifications are given based on worst case product, ABS M25 Projection Gypsum Plaster.

Product Information



Product Content

Required materials for the considered product are shown in the table below.

Product components*	Weight (%)	Post-consumer material weight- %	Biogenic material (kg C / declared unit)
Gypsum	65-70	0	0
Filler	25-30	0	0
Perlite	5-7	0	0
Additive	0-5	0	0
Sum	100	0	0

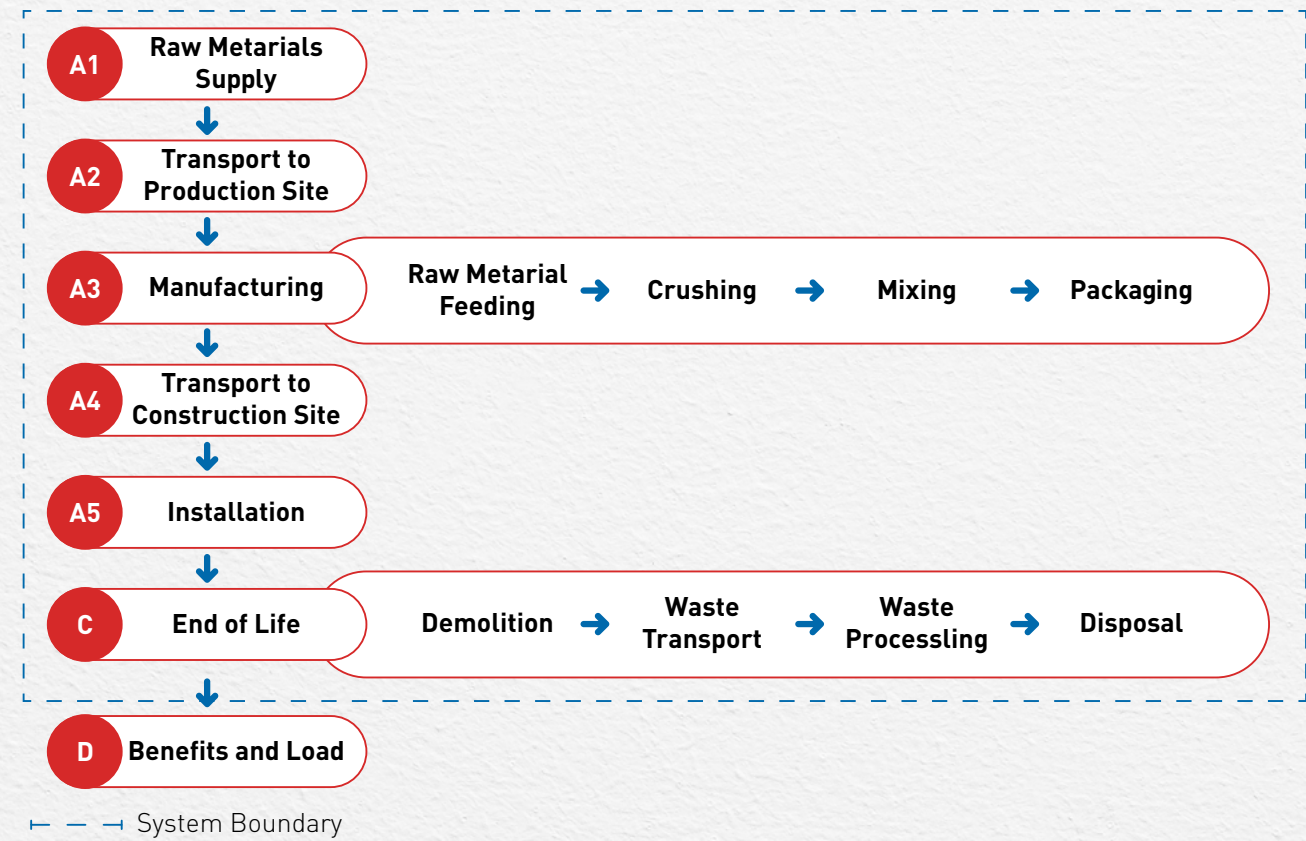
*Product composition is presented as percentages rather than specific weights to maintain confidentiality while transparently communicating the relative proportions of each component.

Packaging Content

The required packaging materials for the considered product are shown in the table below.

Product components	Weight - kg	Weight - % (versus the product)	Biogenic material (kg C / declared unit)
PP Bag	0.002	%0.2	0
Sum	0.002	%0.2	0

System Boundary



A1 - Raw Material Supply

Production begins with raw materials, primarily sourced locally. The ‘Raw Material Supply’ phase encompasses raw material extraction and pre-treatment processes before manufacturing. This stage includes the procurement (quarrying) and production of all binder components and additives. Additionally, it considers the consumption of electricity, fuel, and auxiliary materials during production.

A2 - Raw Material Transport

This stage is relevant for the delivery of raw materials to the production plant. Railway, highway and seaway transportation is also utilized. Transport routes and distances are supplier-specific and provided by the manufacturer. Geographical scope is global.

Transport Mode	Type
Road	Vehicle: Lorry Size Class: →32 metric ton Emission Standard: EUR05 Fuel Type: Diesel
Sea	Vehicle: Container Ship DWT (Load Capacity): 43000 tonnes Fuel Type: Heavy Fuel Oil
Railway	Vehicle: Freight Train Fuel Type: Diesel

System Boundary

A3 - Manufacturing

Gypsum extracted from the quarry first undergoes a primary crushing process. It is then subjected to calcination in kilns, where it is transformed into gypsum hemi-hydrate and subsequently stored in dedicated silos. This hemi-hydrate gypsum is combined with fillers and various additives in a mixer, with each component dosed precisely according to the formulation requirements of the intended product. Once a homogeneous blend is achieved, the material proceeds to the packaging stage. The production process involves the consumption of electricity, natural gas, and diesel. Electricity is entirely supplied from the Turkish grid.

A4 - Product Transport

Product transport from manufacturer to construction site is considered in product material supply stage. The distances and routes are calculated accordingly. Depending on the customer location, product is transported via trucks and other supplies come through seaway.

Transport Mode	Type
Road	Vehicle: Lorry
	Size Class: →32 metric ton
	Emission Standard: EURO5
	Fuel Type: Diesel
Sea	Vehicle: Container Ship
	DWT (Load Capacity): 43000 tonnes
	Fuel Type: Heavy Fuel Oil

A5 - Installation

During the installation of gypsum plaster, water are used as a material. Since the materials used depend on the surface area, similar amounts of materials are used for all products. Additionally, electricity is needed for mixing by machine.

Additionally, the LCA considers the end-of-life treatment of packaging waste at the installation site. The disposal scenarios for packaging materials are modeled based on EU statistical data. According to the JRC report, around 50% of the packaging plastic is assumed to be recycled and the rest is landfilled.

Consumptions for Installation	Amount per Functional Unit
Water	0.65 liter
Electric Mixer	2 minutes

System Boundary



C1 - Deconstruction / Demolition

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

C2 - Waste Transport

Waste transport includes the transport of materials after they reach their end-of-life. The average distance was assumed 50 km by truck from demolition site to a waste or recycling area.

Transport Mode	Type
Road	Vehicle: Lorry
	Size Class: →32 metric ton
	Emission Standard: EURO5
	Fuel Type: Diesel

C3 - Waste Processing

The product is assumed to be disposed of in a landfill without reuse, recovery, or recycling. It is classified as non-hazardous waste according to the European list of waste products. Any environmental impacts associated with the treatment of demolished waste are included in this stage. However, as 100% of the material is sent directly to a landfill, no additional treatment is considered necessary.

C4 - Disposal

All plaster materials ultimately end up in construction and demolition waste landfills. This scenario has been modeled accordingly in the LCA.

D - Benefits

No potential benefits from recycling or reusing the product have been considered. Only the benefits derived from the recycling of packaging materials have been included in the calculations.

LCA Information

Functional Unit:

The functional unit is defined as 1 kg of gypsum plaster.

Time Representativeness:

Full year 2023 (01.01.2023 - 31.12.2023)

Database(s) and LCA Software:

Ecoinvent 3.10 and SimaPro 9.6

System Boundaries:

Cradle to gate with options, modules C1–C4, module D and with optional modules (A4-A5).

	Product Stage			Construction Process Stage		Use Stage							End of Life Stage				Benefifits and Loads
	Raw Material Supply	Transport	Manufacturing	Transport	Construction Installation	Use	Maintenance	Repair	Replacement	Refurbishment	Operational Energy Use	Operational Water Use	Deconstruction / Demolition	Transport	Waste Processing	Disposal	Future reuse, recycling or energy recovery potentials
Module	A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Modules Declared	X	X	X	X	X	ND	ND	ND	ND	ND	ND	ND	X	X	X	X	X
Geography	GLO	TR	GLO	-													
Specific Data Used	51%			-													
Variation - Products	52%			-													
Variation - Sites	0%			-													

LCA Information

Geographical Scope

The geographical scope of this EPD is global.

Allocation

Source of raw material, water consumption, energy consumption and raw material transportation were weighted according to 2023 production figures. In addition, hazardous and non-hazardous waste amounts were also allocated from the 2023 total waste generation.

Cut-Off Criteria

The cut-off for this EPD based on this PCR is 5% over the product life cycle as described in the relevant PCR. In other words, inputs/outputs that are known or expected to contribute more than 5% to the results of any of the environmental performance indicators are included.

LCA Modelling, Calculation and Data Quality

The results of the LCA with the indicators as per EPD requirement are given in the LCA result tables. All energy calculations were obtained using Cumulative Energy Demand (LHV) methodology, while freshwater use is calculated with selected inventory flows in SimaPro according to the PCR. There are no co-product allocations within the LCA study underlying this EPD. The regional energy datasets were used for all energy calculations. For LCA modelling and calculation, Ecoinvent database (v3.10, EN15804 Method) and SimaPro (v9.6) LCA software were used. Characterization factors of EF 3.1 are utilized. The impact of infrastructure and capital goods is excluded from the analysis.

Source of Electricity (Manufacturing)

The electricity data modelled for the production processes is taken from Ecoinvent 3.10 dataset that represents medium voltage electricity production in Türkiye with the reference year, 2021. The chosen dataset has GWP-GHG impact of 0.575 kg CO2 eq. / kWh. The dataset consists of the following production percentages for electricity. Coal, 37%, Hydro, 33%, Natural gas, 17 %, Wind, 8%, Geothermal, 3%, Biogas, 1%, Other, 1%, Biomass, <1%

Assumptions

Upstream and downstream road transportation are assumed to be conducted using EURO5 motor vehicles within the 16-32 metric tonne size class, with distances determined via Google Maps. Additionally, a 50 km transport distance is assumed for waste disposal at the C2 stage.

Reach Regulation

No substances included in the Candidate List of Substances of Very High Concern for authorization under the REACH regulations are present in this product either above the threshold for registration with the European Chemicals Agency or above 0.1% (wt/wt).

Results of the environmental Performance Indicators

It is discouraging the use of the results of modules Manufacturing (Module A1-A3) without considering the results of end-of-life module. 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 functional or declared unit

Indicator	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
GWP-fossil	kg CO ₂ eq.	1.67E-01	9.38E-02	5.28E-02	0.00E+00	1.92E-02	0.00E+00	7.03E-03	-6.03E-04
GWP-biogenic	kg CO ₂ eq.	-1.15E-04	1.65E-05	3.64E-05	0.00E+00	3.46E-06	0.00E+00	3.25E-04	3.92E-06
GWP-luluc	kg CO ₂ eq.	1.62E-03	3.80E-05	7.09E-05	0.00E+00	6.33E-06	0.00E+00	3.62E-06	-3.65E-07
GWP-total	kg CO ₂ eq.	1.69E-01	9.39E-02	5.29E-02	0.00E+00	1.92E-02	0.00E+00	7.35E-03	-5.99E-04
ODP	kg CFC11 eq.	6.64E-09	1.38E-09	4.40E-10	0.00E+00	3.85E-10	0.00E+00	2.03E-10	-1.45E-11
AP	mol H ⁺ eq.	8.85E-04	4.05E-04	2.70E-04	0.00E+00	7.66E-05	0.00E+00	4.98E-05	-2.18E-06
EP-freshwater	kg P eq.	3.98E-05	8.40E-07	2.57E-06	0.00E+00	1.49E-07	0.00E+00	5.83E-07	-1.68E-08
EP-marine	kg N eq.	1.93E-04	1.24E-04	4.67E-05	0.00E+00	2.86E-05	0.00E+00	1.90E-05	-4.13E-07
EP-terrestrial	mol N eq.	1.96E-03	1.37E-03	5.22E-04	0.00E+00	3.14E-04	0.00E+00	2.07E-04	-4.58E-06
POCP	kg NMVOC eq.	6.35E-04	5.27E-04	1.56E-04	0.00E+00	1.16E-04	0.00E+00	7.42E-05	-2.47E-06
ADP - minerals & metals*	kg Sb eq.	3.46E-07	2.50E-07	2.91E-07	0.00E+00	6.19E-08	0.00E+00	1.10E-08	-3.62E-09
ADP-fossil*	MJ	6.77E-01	1.27E-01	4.59E-01	0.00E+00	2.23E-02	0.00E+00	1.07E-02	-3.00E-03
WDP*	m ³	3.39E-02	6.82E-03	3.56E-02	0.00E+00	1.11E-03	0.00E+00	7.53E-03	-1.99E-04

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
Legend	A1: Raw Material Supply, A2: Transport, A3: Manufacturing, A4: Transportation, C1: Demolition, C2: Waste Transport, C3: Waste Processing, C4: Disposal, D: Future reuse, recycling or energy recovery potentials.

Results of the environmental Performance Indicators

Mandatory impact category indicators according to EN 15804

Results per functional or declared unit

Indicator	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
GWP-GHG ¹	kg CO ₂ eq.	1.69E-01	9.41E-02	5.30E-02	0.00E+00	1.93E-02	0.00E+00	7.06E-03	-6.06E-04

Additional voluntary indicators e.g. the voluntary indicators from EN 15804 or the global indicators according to ISO 21930:2017.
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 CO₂ is set to zero.

Resource use indicators

Results per functional or declared unit

Indicator	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
PERE	MJ	1.98E-01	1.76E-02	2.46E-06	0.00E+00	4.62E-03	0.00E+00	2.38E-02	-4.66E-04
PERM	MJ	2.22E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-2.22E-02	0.00E+00
PERT	MJ	2.20E-01	1.76E-02	2.46E-06	0.00E+00	4.62E-03	0.00E+00	1.61E-03	-4.66E-04
PENRE	MJ	6.15E-01	1.27E-01	6.18E-02	0.00E+00	2.23E-02	0.00E+00	1.07E-02	-3.00E-03
PENRM	MJ	6.18E-02	0.00E+00	-6.18E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PENRT	MJ	6.77E-01	1.27E-01	8.57E-06	0.00E+00	2.23E-02	0.00E+00	1.07E-02	-3.00E-03
SM	kg	0.00E+00	0.00E+00	0.00E+00	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	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	0.00E+00	0.00E+00	0.00E+00
FW	m ³	6.52E-04	2.52E-04	1.37E-03	0.00E+00	3.97E-05	0.00E+00	1.79E-04	-2.34E-06

Acronyms	PERE = Use of renewable primary energy excluding renewable primary energy resources used as raw materials; PERM = Use of renewable primary energy resources used as raw materials; PERT = Total use of renewable primary energy resources; PENRE = Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials; PENRM = Use of non-renewable primary energy resources used as raw materials; PENRT = Total use of non-renewable primary energy re-sources; SM = Use of secondary material; RSF = Use of renewable secondary fuels; NRSF = Use of non-renewable secondary fuels; FW = Use of net fresh water
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Waste indicators

Results per functional or declared unit									
Indicator	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
Hazardous waste disposed	kg	1.50E-05	3.77E-05	3.53E-05	0.00E+00	6.73E-06	0.00E+00	2.42E-06	-3.79E-07
Non-hazardous waste disposed	kg	9.59E-04	1.12E-01	1.91E-03	0.00E+00	1.29E-02	0.00E+00	1.12E+00	-3.22E-05
Radioactive waste disposed	kg	9.85E-07	2.89E-07	1.74E-06	0.00E+00	8.66E-08	0.00E+00	2.68E-08	-6.82E-09

Output flow indicators

Results per functional or declared unit									
Indicator	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
Components for re-use	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Material for recycling	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Materials for energy recovery	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Exported energy, electricity	MJ	0.00E+00	0.00E+00	0.00E+00	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	0.00E+00	0.00E+00	0.00E+00

*Disclaimer: This impact category deals mainly with the eventual impact of low dose ionizing radiation on human health of the nuclear fuel cycle. It does not consider effects due to possible nuclear accidents, occupational exposure nor due to radioactive waste disposal in underground facilities. Potential ionizing radiation from the soil, from radon and from some construction materials is also not measured by this indicator.

Ecoinvent / Ecoinvent Centre, www.ecoinvent.org

GPI / General Programme Instructions of the International EPD® System. Version 4.0.

GPI / General Programme Instructions of the International EPD® System. Version 5.0.

ISO 14020:2000/ Environmental Labels and Declarations — General principles

ISO 14040/44 / DIN EN ISO 14040: 2006-10 / Environmental management - Life cycle assessment

- Principles and framework (ISO14040:2006) and Requirements and guidelines (ISO 14044:2006)

ISO 14025 / DIN EN ISO 14025:2009-11 / Environmental labels and declarations - Type III environmental declarations

- Principles and procedures

PCR / EN 15804 serves as the core Product Category Rules (PCR), PCR 2019:14 Construction products, version 1.3.4

The International EPD® System / The International EPD® System is a programme for type III environmental declarations, maintaining a system to verify and register EPD®s as well as keeping a library of EPD®s and PCRs in accordance with ISO 14025. www.environdec.com

SimaPro / SimaPro LCA Software, Pré Consultants, the Netherlands, www.pre-sustainability.com

Metsims / www.metsims.com

Contact Information

Programme & Programme Operator

The International EPD® System
www.environdec.com



EPD International AB Box 210 60
SE-100 31 Stockholm, Sweden
www.environdec.com
info@environdec.com

Licensee



EPD registered through fully aligned
regional licensee: EPD Türkiye
www.epdturkey.org
info@epdturkey.org
NEF 09 B Blok No:7/15, 34415
Kağıthane/İstanbul, Türkiye

Owner of the declaration



ABS Gypsum
Küçükbakkalköy Mah. Merdivenköy Yolu
Cad. No:6 34750 İstanbul/Türkiye

Contact person: Ulaş Aytac
Production Chef

Telephone: +90 216 324 47 22 (Pbx)
Fax: +90 216 324 47 23
E-Mail: abs@absalci.com.tr

LCA practitioner and EPD Design



The United Kingdom
Clear Water Place
Oxford OX2 7NL, UK 0 800 722 0185
www.metsims.com
info@metsims.com
Türkiye
Nef 09 B Blok No:7/46-47 34415
Kağıthane/İstanbul, Türkiye
+90 212 281 13 33

