Environmental Product Declaration

In accordance with ISO 14025 and EN 15804 for:

GYPSOTECH EXTERNA LIGHT

from

FASSA srl

Programme:	The International EPD® System, www.environdec.com
Programme operator:	EPD International AB
EPD registration number:	S-P-05139
Publication date:	2021-12-10
Valid until:	2026-12-10
Geographical scope	Global

Programme information

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

Product category rules (PCR): *CONSTRUCTION PRODUCTS AND CONSTRUCTION SERVICES 2012:01, VERSION 2.3* sub PCR ACOUSTICAL SYSTEM SOLUTIONS (CONSTRUCTION PRODUCT) (v2.2) PCR 2012:01-SUB-PCR-C rev.16/11/2018
PCR review was conducted by: *The Technical Committee of the International EPD® System. Chair: Massimo Marino.* *Contact via info@environdec.com*
Independent third-party verification of the declaration and data, according to ISO 14025:2006: ☐ EPD process certification ☒ EPD verification
Third party verifier: *Rina Services Spa - signature* *In case of accredited certification bodies:* Accredited by: *Accredia, Accreditation n.* 001H.
Procedure for follow-up of data during EPD validity involves third party verifier: ☐ Yes ☒ No

The EPD owner has the sole ownership, liability, and responsibility for the EPD. EPDs within the same product category but from different programmers may not be comparable. EPDs of construction products may not be comparable if they do not comply with EN 15804.

Company information

Owner of the EPD: FASSA srl, via Lazzaris, 3, 31027 Spresiano (TV), tel: +39.0422.7222 – mail: info@fassabortolo.it

Description of the organisation: Fassa Bortolo is a historic name in the world of building, Italian leader and one of the world's best-known companies. Care paid to quality and raw materials, research, innovation and the environment have always been at the basis of the company's vision, expressed through continuous commitment to the development of state-of-the-art solutions for the evolution of building. The vast range of products meets all of the industry's needs and adapts to any type of application, from small building work to large construction sites: from mortars to premixed plasters, from paints to products for laying coverings, bio-architecture products and solutions for restoration, renovation and thermal insulation.
Today the Fassa Group has 19 production sites and 9 sales offices, with a staff of almost 1,600 employees and salespeople

Product-related or management system-related certifications:

- Management system certification: ISO 9001:2015 for the following field of application: "*Design and development of plasterboards and building products based on hydraulic binders, air binders, gypsum and organic; performing of chemical, physical and technological analysis*".

Name and location of production site:

- Via Lavoratori Autobianchi, 1, 20832 Desio MB

NOTE: The slab production activities take place at the qualified Supplier's Desio (MB) plant.

Product information

Gypsotech Externa Light
Product identification: slab for building, which can be used for the formation of walls, counterwalls and false ceilings also towards the outside.
Product description: Fiber-reinforced lightweight concrete slab for indoor or outdoor use, 12,5 mm thick. Composed of cement, mineral aggregates, specific additives and lightened with expanded polystyrene, covered with a fiberglass mesh on both sides.

UN CPC code: 375 Articles of concrete, cement and plaster
Geographical scope: Global

Technical data		
Width	[mm]	1200
Length	[mm]	2000
Thickness	[mm]	12,5
Weight	[kg/m2]	12,5
Reaction to fire	-	A1
Thermal conductivity	[W/mK]	0,20

LCA information

Declared unit: 1 m^2 of product

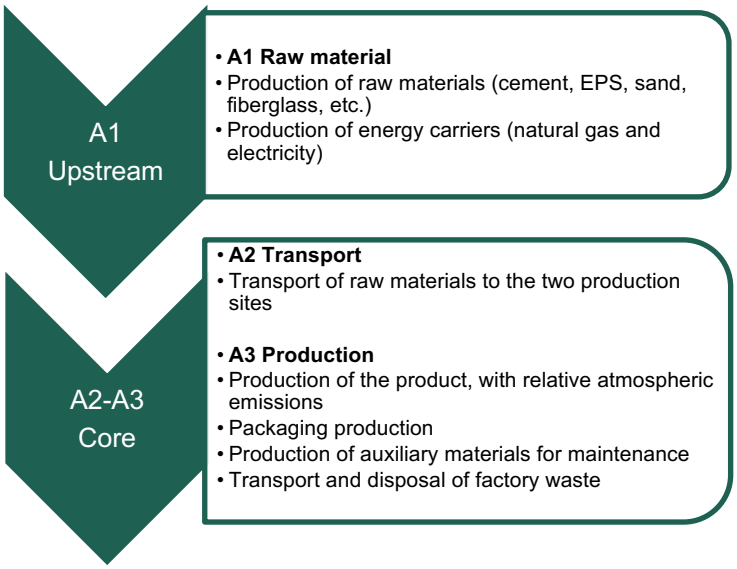
Time representativeness: the data refer to the year 2018.

Database(s) and LCA software used:
ecoinvent v. 3.5, November 2018.

Sima pro 9.0

Description of system boundaries: Type of EPD: cradle to gate

System diagram:



Excluded lifecycle stages: the study is limited to the factory gate, as the subsequent phases are optional.

More information:
A 1% cut-off was used, in terms of environmental relevance.
In cut off were considered:
• the labels affixed to the product during shipment;
• general office consumptions.
• packaging of packaging materials.
Specific energy consumption per production line was used in the study.
Maintenance and atmospheric emissions are also line specific.

Name and contact information of LCA practitioner: LCA study was carried out by e3 studio associato di consulenza, info@ecubo.it

Content declaration

Gypsotech Externa Light

Materials / chemical substances	%	Environmental / hazardous properties
Portland cement	23-33%	H315, H318, H317, H335
EPS expanded polystyrene	0,6-1,0%	-
Sand	63-77%	-
Glass fiber mesh	0,9 - 1,3%	-
Chemical agent	0,5-1,1%	-

The product doesn't contain substances listed in the "Candidate List of Substances of Very High Concern for Authorisation over 0,1%".

Packaging

Consumer and distribution packaging: the product is distributed on pallets, packaged with cardboard corners and metal straps.

Recycled material

In the product there is material deriving from the recycling of internal cuts from cutting, in a variable percentage between 10% and 12%.

Environmental performance

Potential environmental impact

1 m² Gypsotech Externa Light	Unit	A1	A2	A3	Total
Global Warming potential (GWP)	kg CO2 eq	4,77	0,08	0,05	4,91
Formation potential of tropospheric ozone (POCP)	kg C2H4 eq	6,18E-04	1,30E-05	1,03E-05	**6,42E-04**
Acidification potential (AP)	kg SO2 eq	0,0129	0,0003	0,0001	**0,0134**
Eutrophication potential (EP)	kg PO4--- eq	3,83E-03	7,25E-05	7,65E-05	**3,98E-03**
Depletion potential of the stratospheric ozone layer (ODP)	kg CFC-11 eq	2,16E-07	1,53E-08	3,25E-09	**2,35E-07**
Abiotic depletion potential – Elements	kg Sb eq	5,46E-06	1,50E-07	3,02E-07	**5,91E-06**
Abiotic depletion potential – Fossil resources	MJ	36,6	1,3	0,4	**38,3**

Use of resources

PARAMETER		UNIT	A1	A2	A3	TOTAL A1-A3
Primary energy resources – Non Renewable	Use as energy carrier	MJ, net calorific value	31	1	0	**33**
	Used as raw materials	MJ, net calorific value	10	0	0	**10**
	TOTAL	MJ, net calorific value	41	1	0	**43**
Primary energy resources – Renewable	Use as energy carrier	MJ, net calorific value	5	0	0	**5**
	Used as raw materials	MJ, net calorific value	0	0	1	**1**
	TOTAL	MJ, net calorific value	5	0	1	**6**
Secondary material		kg	0	0	0	**0**
Renewable secondary fuels		MJ, net calorific value	0	0	0	**0**
Non-renewable secondary fuels		MJ, net calorific value	0	0	0	**0**
Net use of fresh water		m^3	6,4	0,1	0,2	**6,7**

Waste production

PARAMETER	UNIT	A1	A2	A3	TOTAL A1-A3
Hazardous waste disposed	kg	2,6E-05	7,4E-07	7,6E-07	**2,8E-05**
Non-hazardous waste disposed	kg	0,17	0,11	0,01	**0,29**
Radioactive waste disposed	kg	1,2E-04	8,7E-06	1,8E-06	**1,3E-04**

Additional information

Emission of Volatile Organic Compounds (VOC) using testing chamber method according to standard UNI EN ISO 16000-9:2006 and classification "Décret n° 2011-321 du 23 mars 2011" and "Arrêté del 19/04/2011)":

- *Gypsotech Externa Light: Emission class A+ (TEST REPORT No. 340720 Istituto Giordano)*

References

General Programme Instructions of the International EPD® System. Version 2.5., CONSTRUCTION PRODUCTS AND CONSTRUCTION SERVICES, 2012:01, VERSION 2.3
Rapporto LCA FASSA srl rev.0, 18/11/2021
ecoinvent v. 3.5, November 2018, www.ecoinvent.org

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