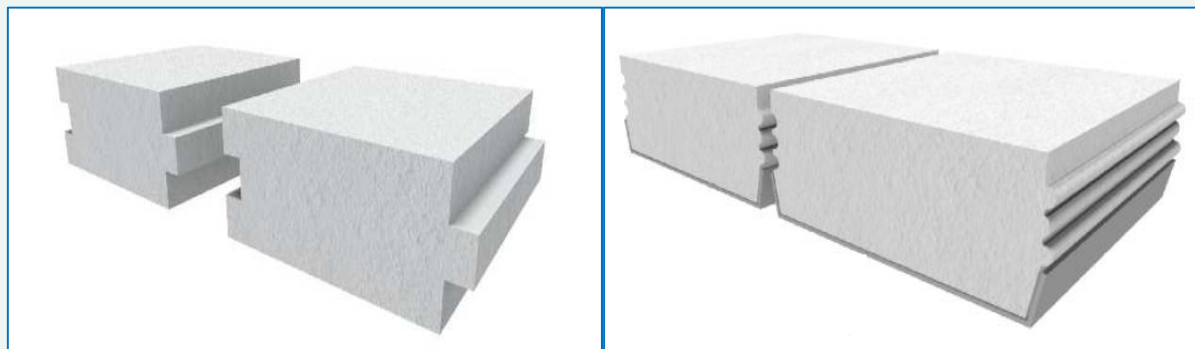


Environmental Product Declaration

In accordance with ISO 14025 and EN 15804:2012+A2:2019 for:

Tongue&groove
PS34TG – PS36TG – CBI30TG – CBI36TG

From **CBI Europe S.p.A.**



Programme:
Programme operator:
EPD registration number:
Version
Publication date:
Valid until:

The International EPD® System, WWW.ENVIRONDEC.COM
EPD International AB
S-P-03629
1
2021-05-20
2026-05-19

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

General information

Programme information

Programme:	The International EPD® System
Address:	EPD International AB Box 210 60 SE-100 31 Stockholm Sweden
Website:	WWW.ENVIRONDEC.COM
E-mail:	INFO@ENVIRONDEC.COM

CEN standard EN 15804 serves as the Core Product Category Rules (PCR)	
Product category rules (PCR): Construction products, PCR 2019:14 version 1.11 UN CPC code(s): 42190	
PCR review was conducted by: Martin Erlandsson, IVL Swedish Environmental Research Institute, martin.erlandsson@ivl.se	
Independent third-party verification of the declaration and data, according to ISO 14025:2006:	
☐ EPD process certification	☒ EPD verification
Third party verifier: Marcel Gómez Ferrer, Marcel Gómez Consultoria Ambiental, info@marcelgomez.com	
Approved by: The International EPD® System	
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 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.

Name and contact information of LCA practitioners:

Esalex srl – info@esalex.eu

BM and Partner Studio Associato – info@bm-partners.it

Company information

Owner of the EPD: CBI EUROPE S.p.A.

Contact: Marocchini Roberto, email: r.marrocchini@cbi-europe.com

Description of the organisation: CBI Europe S.p.A. produces technological and innovative systems for a complete interior installation, with passion and precision, for thirty years, worldwide.

The company operates in the production of ceilings in MDF, wood, steel, aluminum, mineral fibre and lightened plaster, partition walls, raised floors.

The technical experience and the continuous comparison, with the demands of designers from different markets, make CBI EUROPE an ideal reference point for those who design new, refined and comfortable interiors, and at the same time CBI EUROPE is technologically advanced in an integrated context, offering a very wide range of systems, products, materials, technical solutions and alternatives that improve work environments of the latest generation.

All construction products of CBI Europe are accompanied by CE marking and are in compliance with European Standard.

The quality of all CBI Europe manufacturing processes is certified to ISO 9001:2015 (registration number IT-17318).

More information: www.cbi-europe.com

Name and location of production site:

CBI Europe

Via Mons. A.O. Romero, 14

Osimo (AN), Italy

T. +39 071 71 08 688

info@cbi-europe.com

Product information

Product name:

The EPD includes the following products:

- **PS34TG**: calcium sulphate panel with dimension 600x600x34 mm
- **PS36TG**: calcium sulphate panel with dimension 600x600x36 mm
- **CBI30TG**: calcium sulphate panel and galvanized steel dish with dimension 600x600x30,5 mm
- **CBI36TG**: calcium sulphate panel and galvanized steel dish with dimension 600x600x36,5 mm

Product description and identification: The products under study are bare panels made by calcium sulphate. The dimension of the panel is 600 x 600 mm, but the thickness varies according to the customer needs: the thickness can be 34 mm (PS34TG) or 36 mm (PS36TG) for products without any bottom dish, 30,5 (CBI30TG) or 36,5 mm (CBI36TG) for products with galvanized steel dish.

The top covering of panel in building is out of the scope of EPD because the application of surface material depend on the customer choice.

UN CPC code: 42190

Geographical scope: International

Technical specification:

For the installation of the products in the building floor, different installation systems can be used with different ancillary materials. In the study the most impactant scenario has been chosen (CR system). Below the technical fratures for the installation systems.

The technical features of **tongue&groove panel** are:

	PS34TG	PS36TG	CBI30TG	CBI36TG
Fire reaction UNI EN 13501-1	Bfl-s1	A1	A1	A1
Fire resistance UNI EN 13501-2	REI 30	REI 30	REI 60	REI 60

Technical features UNI EN 12825

		PS34TG	PS36TG	CBI30TG	CBI36TG
CBI/ST 	center of panel – deflection 2,5 mm	4,8 KN	5,5 KN	4,7 KN	5,6 KN
	center of panel – ultimate load	6,1 KN	6,9 KN	9,7 KN	11,2 KN
	loading class	2	2	4	5
CBI/CR 	center of panel – deflection 2,5 mm	5,0 KN	5,8 KN	4,8 KN	5,9 KN
	center of panel – ultimate load	6,4 KN	7,2 KN	9,8 KN	11,8 KN
	loading class	2	2	4	6
IF 	center of panel – deflection 2,5 mm	5,3 KN	6,0 KN	5,2 KN	6,2 KN
	center of panel – ultimate load	6,7	7,6 KN	10,7 KN	12,3 KN
	loading class	2	2	5	6

LCA information

Functional unit: 1 m² of panel

The study comprises the raw material extraction, raw material transportation, manufacturing, transportation to customer, installation, end-of-life of product.

Reference service life: 25 years

Time representativeness: primary data refer to 2020 year. The generic data has been updated in 2019 (Ecoinvent 3.6).

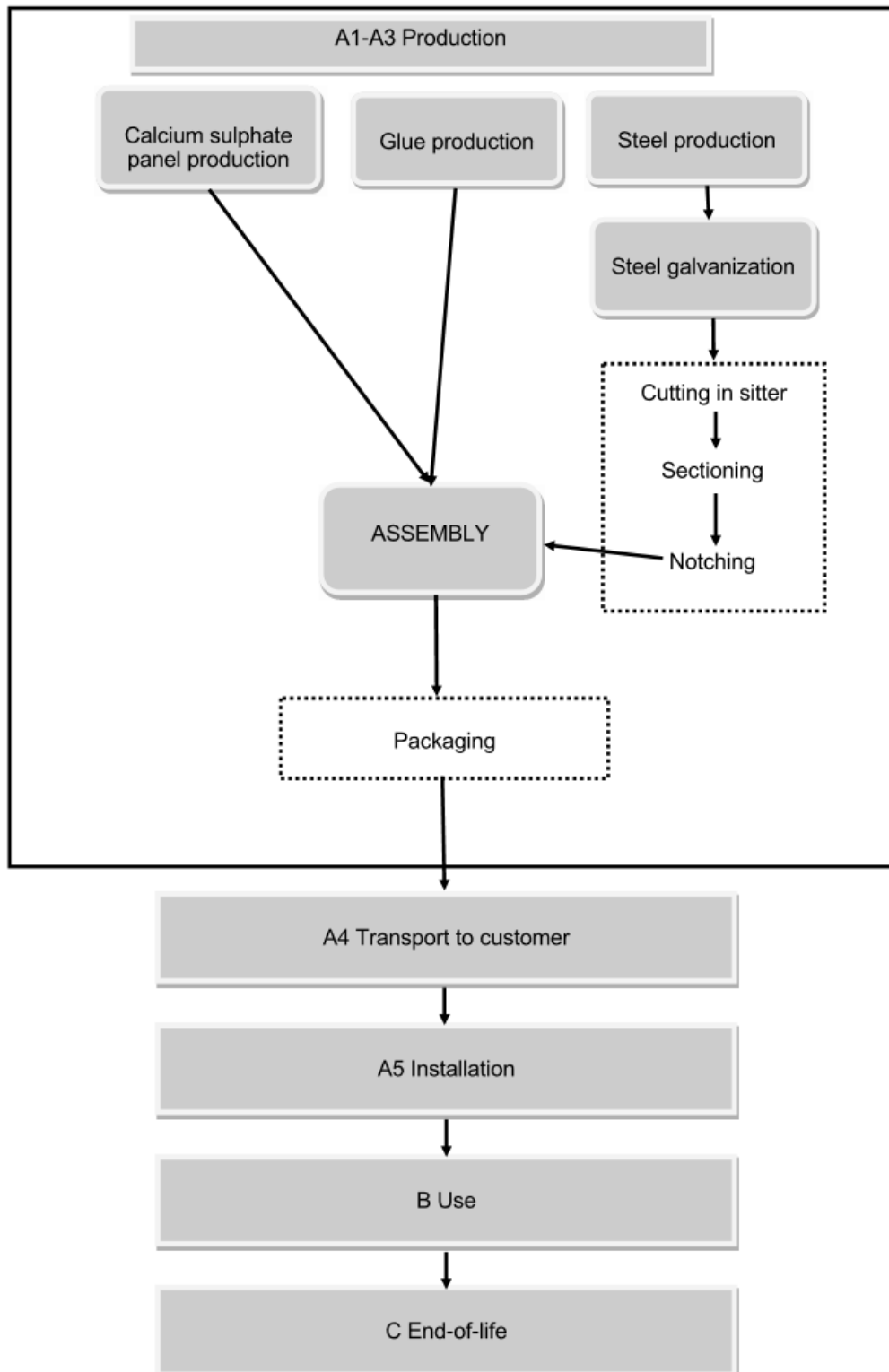
Database(s) and LCA software used: for the elaboration of data SimaPro 9.1.0.8; the database used is Ecoinvent 3.6 and Agribalyse v.1.3.

Description of system boundaries: cradle-to-grave (A-B-C) + module D

Excluded lifecycle stages: all life stages are included in the LCA study

More information: www.cbi-europe.com

System boundary is presented in the flow chart below:



Additional information:

- The allocation is applied in the LCA study: when necessary, mass allocation is used (with the exception of the electricity and water in the production phase in which the economic allocation is applied).
- Electricity: the electrical supplier production mix in the 2019 is used in production phase. 1 kWh = 0,457 Kg CO₂eq.
- Cut-off: at least 95% of the energy and materials used by module has been introduced, as well as 99% of the total use of energy and materials
- The modularity principle, as well as the polluter payer principle have been followed
- The next processes have not been included since its impact is not significant:
 - Environmental impact from infrastructure, construction, production equipment, and tools that are not directly consumed in the production process.
 - Personnel-related impacts, such as transportation to and from work.
- The impact method used are:
 - EN 15804+A2 v. 1.00
 - GHG Protocol v. 1.02
 - Cumulative energy demand v. 1.00 for Resource use
 - EDIP 2003 v. 1.07 for waste production
 - AWARE for water deprivation potential.

The verifier and the program operator do not make any claim nor have any responsibility of the legality of the product.

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

Modules declared, geographical scope, share of specific data (in GWP-GHG indicator) and data variation:

	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	X	X	X	X	X	X	X	X	X	X	X	X	X
Geography	Italy	Italy	Italy	World	World	World	World	World	World	World	World	World	World	World	World	World	World
Specific data used	Yes					-	-	-	-	-	-	-	-	-	-	-	-
Variation – products	Less than 10% of impacts in every group of products					-	-	-	-	-	-	-	-	-	-	-	-
Variation – sites	One manufacturing site – not relevant					-	-	-	-	-	-	-	-	-	-	-	-

- Module A1 – Raw material supply: this module includes the extraction of raw material
- Module A2 – Transport: this module includes the transportation of raw materials from the production site to the CBI Europe gate
- Module A3 – Manufacturing: this module considers the CBI Europe internal processes, including consumption of energy, resources and packaging. Output flows include production waste and packaging of raw materials. The production process consists in cutting the galvanized steel, milling the calcium sulphate panel for creating the joint and gluing the galvanized steel dish (CBI30TG and CBI 36TG).
- Module A4 – Transport: this module considers the transport of product to construction site.

PARAMETER	DESCRIPTION / VALUE
Fuel type and consumption of vehicle or vehicle type used for transport e.g. long distance truck, boat, etc	Truck (16-32 metric ton): 0,0378 kg of diesel low sulfur for ton*km transported (from Ecoinvent) Ship: 0,0025 kg of heavy fuel oil for ton*km transported (from Ecoinvent)
Distance	For truck: 600 km For ship: 4606 Km
Capacity utilisation (including empty returns)	Truck: 24% Ship: 70%
Bulk density of transported products (kg/m3)	PS34TG: 3303,26 kg/m3 (average bulk density) PS36TG: 3303,91 kg/m3 (average bulk density) CBI30TG: 3656,99 kg/m3 (average bulk density) CBI36TG: 3589,61 kg/m3 (average bulk density)
Volume capacity utilisation factor	1

- Module A5 – Construction installation: this module considers the installation of product in the building with use of auxiliary materials.

PARAMETER	DESCRIPTION	VALUE
Auxiliary materials for installation	Pedestal (galvanized steel) kg	5,94
	PVC washer kg	6,54E-05
	Stringer (galvanized steel) kg	2,22
	PVC washer long kg	0,00028
Use of water	m ³	0
Use of other resources	kg	0
Quantitative description of energy type and consumption during the preparation and installation process	Electric energy kWh	0,0056
Direct emissions to ambient air, soil and water	kg	0
Waste materials on the building site, before waste processing, generated by the product's installation; specified by type	Product losses	4%
	Pallet (average) kg	0,93
	Cardboard box (average) kg	0,05
	Strapping band (average) kg	0,01
	Cardboard box for pedestal kg	0,28
Output materials (specified by type) as result of waste processing at the building site e.g. of collection for recycling, for energy recovery, disposal; specified by route	Landfill	

- Module B – Use stage: the product doesn't require any use, maintenance, repair, replacement, refurbishment and it isn't necessary use of energy or water for his use.
- Module C1 – Deconstruction/demolition: The product is uninstalled manually and a sucker only is necessary, without the use of energy.
- Module C2 – Transport to waste processing: the product is then transported to disposal; the scenario provides the transport for 50 km.
- Module C3 - Waste processing for reuse, recovery and/or recycling: the product is send to landfill and there isn't any reuse, recovery or recycling.
- Module C4 - Disposal: the product is totally disposed in landfill.

PARAMETER	VALUE / DESCRIPTION
Collection process specified by type	The product is collected mixed with construction waste
Recovery system specified by type	There is no recovery, recycling or reuse
Disposal specified by type	100% landfill
Assumptions for scenario development (e.g. transportation)	16-32 ton truck. Distance: 50 km

- Module D - Reuse-Recovery-Recycling potential: Module D calculates the potential environmental benefits of the recycling or reuse of materials. This product has not considerable benefits due to recycling or/and reuse.

Content information

PS34TG – PS36TG

The PS36TG product content declaration is illustrated below.

The results are valid for the products PS34TG (39,48 kg/m²) and PS36TG (41,79 kg/m²) since the impact of A1-A3 on Climate change differ less 10%.

Product components	Weight, kg	Post-consumer material, weight-%	Renewable material, weight-%
Calcium sulphate panel	41,64	48%	100%
Glue	0,15	0	0
TOTAL	41,79		
Packaging materials	Weight, kg	Weight-% (versus the product)	
Pallet	0,96	2,30	
Paper box	0,053	0,13	
Plastic bands	0,0107	0,03	
TOTAL	1,03	2,45	

There are no SVHC substances in the product more than 0,1 % of weight of the product.

Environmental Information

Potential environmental impact – mandatory indicators according to EN 15804

Results per functional unit										
Indicator	Tot.A1-A3	A4	A5	Tot. B1-B7	C1	C2	C3	C4	total	D
GWP-fossil (kg CO ₂ eq.)	2,27E+01	6,46E+00	1,71E+01	0,00E+00	0,00E+00	3,62E-01	0,00E+00	4,40E-01	4,72E+01	0,00E+00
GWP-biogenic (kg CO ₂ eq.)	-2,92E+00	1,19E-03	9,24E-01	0,00E+00	0,00E+00	1,40E-04	0,00E+00	8,33E+00	6,34E+00	0,00E+00
GWP-luluc (kg CO ₂ eq.)	3,28E-02	2,96E-03	1,77E-02	0,00E+00	0,00E+00	1,30E-04	0,00E+00	1,98E-04	5,38E-02	0,00E+00
GWP-total (kg CO ₂ eq.)	1,99E+01	6,47E+00	1,81E+01	0,00E+00	0,00E+00	3,63E-01	0,00E+00	8,77E+00	5,36E+01	0,00E+00
ODP (kg CFC 11 eq.)	4,00E-06	1,38E-06	1,29E-06	0,00E+00	0,00E+00	7,94E-08	0,00E+00	1,37E-07	6,89E-06	0,00E+00
AP (mol H ⁺ eq.)	1,56E-01	9,29E-02	3,03E-01	0,00E+00	0,00E+00	2,46E-03	0,00E+00	3,76E-03	5,59E-01	0,00E+00
EP-freshwater (kg PO ₄ ³⁻ eq.)	2,68E-02	9,73E-03	3,57E-02	0,00E+00	0,00E+00	3,51E-04	0,00E+00	4,96E-04	7,31E-02	0,00E+00
EP-freshwater (kg P eq.)	1,26E-03	5,02E-05	1,08E-03	0,00E+00	0,00E+00	3,37E-06	0,00E+00	7,36E-06	2,40E-03	0,00E+00
EP-marine (kg N eq.)	4,96E-02	2,70E-02	2,86E-02	0,00E+00	0,00E+00	9,38E-04	0,00E+00	1,27E-03	1,07E-01	0,00E+00
EP-terrestrial (mol N eq.)	4,95E-01	2,99E-01	1,14E+00	0,00E+00	0,00E+00	1,03E-02	0,00E+00	1,40E-02	1,96E+00	0,00E+00
POCP (kg NMVOC eq.)	1,08E-01	7,95E-02	8,49E-02	0,00E+00	0,00E+00	2,84E-03	0,00E+00	5,93E-03	2,82E-01	0,00E+00
ADP-minerals&metals (kg Sb eq.)	5,16E-04	1,34E-04	3,29E-02	0,00E+00	0,00E+00	9,54E-06	0,00E+00	4,71E-06	3,36E-02	0,00E+00
ADP-fossil (MJ)	3,27E+02	9,22E+01	2,03E+02	0,00E+00	0,00E+00	5,39E+00	0,00E+00	1,04E+01	6,38E+02	0,00E+00
WDP (m ³)	1,21E+01	2,54E-01	4,64E+00	0,00E+00	0,00E+00	1,73E-02	0,00E+00	4,48E-01	1,75E+01	0,00E+00
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 modules B1-B7 have impacts 0.

Potential environmental impact – additional indicators

Results per functional unit										
Indicator	Tot.A1-A3	A4	A5	Tot. B1-B7	C1	C2	C3	C4	total	D
GWP-GHG[1] (kg CO ₂ eq.)	2,43E+01	6,43E+00	1,78E+01	0,00E+00	0,00E+00	3,60E-01	0,00E+00	7,15E+00	5,60E+01	0,00E+00

¹ 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.

Information on biogenic carbon content

Results per functional unit

BIOGENIC CARBON CONTENT	Unit	QUANTITY
Biogenic carbon content in product	kg C	4,17E-01
Biogenic carbon content in packaging	kg C	1,23E-02

Note: 1 kg biogenic carbon is equivalent to 44/12 kg CO₂.

Use of resources

Results per functional unit

Indicator	Tot.A1-A3	A4	A5	Tot. B1-B7	C1	C2	C3	C4	Total	D
PERE (MJ)	6,84E+01	9,17E-01	2,17E+01	0,00E+00	0,00E+00	5,98E-02	0,00E+00	1,69E-01	9,13E+01	0,00E+00
PERM (MJ)	9,28E+01	0,00E+00	8,59E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,01E+02	0,00E+00
PERT (MJ)	1,61E+02	9,17E-01	3,03E+01	0,00E+00	0,00E+00	5,98E-02	0,00E+00	1,69E-01	1,93E+02	0,00E+00
PENRE (MJ)	3,27E+02	9,22E+01	2,03E+02	0,00E+00	0,00E+00	5,39E+00	0,00E+00	1,04E+01	6,38E+02	0,00E+00
PENRM (MJ)	4,74E+00	0,00E+00	2,03E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	4,94E+00	0,00E+00
PENRT (MJ)	3,32E+02	9,22E+01	2,03E+02	0,00E+00	0,00E+00	5,39E+00	0,00E+00	1,04E+01	6,43E+02	0,00E+00
SM (kg)	1,92E+01	0,00E+00	7,99E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,00E+01	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	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	0,00E+00	0,00E+00
FW (m ³)	6,76E-01	1,55E-02	3,28E-01	0,00E+00	0,00E+00	1,02E-03	0,00E+00	1,19E-02	1,03E+00	0,00E+00
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									

Waste production and output flows

Waste production

Results per functional unit

Indicator	Tot.A1-A3	A4	A5	Tot. B1-B7	C1	C2	C3	C4	total	D
Hazardous waste disposed (kg)	6,89E-04	2,01E-04	4,97E-03	0,00E+00	0,00E+00	1,42E-05	0,00E+00	1,59E-05	5,89E-03	0,00E+00
Non-hazardous waste disposed (kg)	1,18E+01	3,23E+00	9,59E+00	0,00E+00	0,00E+00	2,52E-01	0,00E+00	4,18E+01	6,67E+01	0,00E+00
Radioactive waste disposed (kg)	1,90E-03	6,15E-04	5,80E-04	0,00E+00	0,00E+00	3,54E-05	0,00E+00	6,19E-05	3,19E-03	0,00E+00

Output flows

Results per functional unit										
Indicator	Tot. A1-A3	A4	A5	Tot. B1-B7	C1	C2	C3	C4	total	D
Components for re-use (kg)	9,05E-01	0,00E+00	3,77E-02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	8,17E+00	9,11E+00	0,00E+00
Material for recycling (kg)	2,93E-02	0,00E+00	1,22E-03	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	3,05E-02	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	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	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	0,00E+00	0,00E+00

Content information

CBI30TG – CBI36TG

The CBI36TG with marble tile product content declaration is illustrated below.

The results are valid for the products CBI30TG (39,20 kg/m²) and CBI36TG (46,14 kg/m²) since the impact of A1-A3 on Climate change differ less 10%.

Product components	Weight, kg	Post-consumer material, weight-%	Renewable material, weight-%
Galvanized steel	4,26	85	0
Calcium sulphate panel	41,64	48%	100%
Glue	0,24	0	0
TOTAL	46,14		
Packaging materials	Weight, kg	Weight-% (versus the product)	
Pallet	0,96	2,08	
Paper box	0,053	0,12	
Plastic bands	0,0107	0,02	
TOTAL	1,03	2,22	

There are no SVHC substances in the product more than 0,1 % of weight of the product.

Environmental Information

Potential environmental impact – mandatory indicators according to EN 15804

Results per functional unit										
Indicator	Tot.A1-A3	A4	A5	Tot. B1-B7	C1	C2	C3	C4	total	D
GWP-fossil (kg CO ₂ eq.)	2,84E+01	7,11E+00	1,74E+01	0,00E+00	0,00E+00	4,00E-01	0,00E+00	4,86E-01	5,38E+01	0,00E+00
GWP-biogenic (kg CO ₂ eq.)	-2,88E+00	1,31E-03	9,25E-01	0,00E+00	0,00E+00	1,55E-04	0,00E+00	8,33E+00	6,38E+00	0,00E+00
GWP-luluc (kg CO ₂ eq.)	3,97E-02	3,25E-03	1,80E-02	0,00E+00	0,00E+00	1,44E-04	0,00E+00	2,19E-04	6,13E-02	0,00E+00
GWP-total (kg CO ₂ eq.)	2,55E+01	7,11E+00	1,83E+01	0,00E+00	0,00E+00	4,00E-01	0,00E+00	8,82E+00	6,02E+01	0,00E+00
ODP (kg CFC 11 eq.)	4,77E-06	1,52E-06	1,33E-06	0,00E+00	0,00E+00	8,77E-08	0,00E+00	1,51E-07	7,85E-06	0,00E+00
AP (mol H ⁺ eq.)	5,46E-01	1,02E-01	3,19E-01	0,00E+00	0,00E+00	2,72E-03	0,00E+00	4,15E-03	9,74E-01	0,00E+00
EP-freshwater (kg PO ₄ ³⁻ eq.)	7,18E-02	1,07E-02	3,76E-02	0,00E+00	0,00E+00	3,88E-04	0,00E+00	5,48E-04	1,21E-01	0,00E+00
EP-freshwater (kg P eq.)	1,60E-03	5,51E-05	1,09E-03	0,00E+00	0,00E+00	3,72E-06	0,00E+00	8,13E-06	2,75E-03	0,00E+00
EP-marine (kg N eq.)	6,68E-02	2,97E-02	2,94E-02	0,00E+00	0,00E+00	1,04E-03	0,00E+00	1,41E-03	1,28E-01	0,00E+00
EP-terrestrial (mol N eq.)	2,16E+00	3,29E-01	1,21E+00	0,00E+00	0,00E+00	1,14E-02	0,00E+00	1,55E-02	3,73E+00	0,00E+00
POCP (kg NMVOC eq.)	1,33E-01	8,74E-02	8,62E-02	0,00E+00	0,00E+00	3,13E-03	0,00E+00	6,35E-03	3,16E-01	0,00E+00
ADP-minerals&metals (kg Sb eq.)	2,11E-02	1,48E-04	3,37E-02	0,00E+00	0,00E+00	1,05E-05	0,00E+00	5,20E-06	5,50E-02	0,00E+00
ADP-fossil (MJ)	4,15E+02	1,01E+02	2,07E+02	0,00E+00	0,00E+00	5,95E+00	0,00E+00	1,14E+01	7,41E+02	0,00E+00
WDP (m ³)	1,49E+01	2,79E-01	4,76E+00	0,00E+00	0,00E+00	1,91E-02	0,00E+00	4,94E-01	2,04E+01	0,00E+00
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 modules B1-B7 have impacts 0.

Potential environmental impact – additional indicators

Results per functional unit										
Indicator	Tot.A1-A3	A4	A5	Tot. B1-B7	C1	C2	C3	C4	total	D
GWP-GHG[1] (kg CO ₂ eq.)	3,00E+01	7,07E+00	1,81E+01	0,00E+00	0,00E+00	3,98E-01	0,00E+00	7,19E+00	6,27E+01	0,00E+00

1 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.

Information on biogenic carbon content

Results per functional unit

BIOGENIC CARBON CONTENT	Unit	QUANTITY
Biogenic carbon content in product	kg C	4,79E-01
Biogenic carbon content in packaging	kg C	1,23E-02

Note: 1 kg biogenic carbon is equivalent to 44/12 kg CO₂.

Use of resources

Results per functional unit

Indicator	Tot.A1-A3	A4	A5	Tot. B1-B7	C1	C2	C3	C4	total	D
PERE (MJ)	7,63E+01	1,01E+00	2,20E+01	0,00E+00	0,00E+00	6,60E-02	0,00E+00	1,87E-01	9,96E+01	0,00E+00
PERM (MJ)	9,31E+01	0,00E+00	8,60E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,02E+02	0,00E+00
PERT (MJ)	1,69E+02	1,01E+00	3,06E+01	0,00E+00	0,00E+00	6,60E-02	0,00E+00	1,87E-01	2,01E+02	0,00E+00
PENRE (MJ)	4,15E+02	1,01E+02	2,07E+02	0,00E+00	0,00E+00	5,95E+00	0,00E+00	1,14E+01	7,41E+02	0,00E+00
PENRM (MJ)	7,32E+00	0,00E+00	3,10E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	7,63E+00	0,00E+00
PENRT (MJ)	4,22E+02	1,01E+02	2,07E+02	0,00E+00	0,00E+00	5,95E+00	0,00E+00	1,14E+01	7,48E+02	0,00E+00
SM (kg)	2,27E+01	0,00E+00	9,44E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,36E+01	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	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	0,00E+00	0,00E+00
FW (m ³)	8,10E-01	1,71E-02	3,33E-01	0,00E+00	0,00E+00	1,12E-03	0,00E+00	1,31E-02	1,17E+00	0,00E+00

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

Waste production and output flows

Waste production

Results per functional unit

Indicator	Tot.A1-A3	A4	A5	Tot. B1-B7	C1	C2	C3	C4	total	D
Hazardous waste disposed (kg)	3,47E-03	2,21E-04	5,08E-03	0,00E+00	0,00E+00	1,57E-05	0,00E+00	1,75E-05	8,81E-03	0,00E+00
Non-hazardous waste disposed (kg)	1,35E+01	3,55E+00	9,85E+00	0,00E+00	0,00E+00	2,78E-01	0,00E+00	4,61E+01	7,34E+01	0,00E+00
Radioactive waste disposed (kg)	2,28E-03	6,76E-04	5,98E-04	0,00E+00	0,00E+00	3,91E-05	0,00E+00	6,84E-05	3,66E-03	0,00E+00

Output flows

Results per functional unit										
Indicator	Tot. A1-A3	A4	A5	Tot. B1-B7	C1	C2	C3	C4	total	D
Components for re-use (kg)	9,05E-01	0,00E+00	3,77E-02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	8,17E+00	9,11E+00	0,00E+00
Material for recycling (kg)	4,84E-02	0,00E+00	2,02E-03	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	5,04E-02	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	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	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	0,00E+00	0,00E+00

Additional information

No further information is provided.

This document is the first emission of EPD.

References

- General Programme Instructions of the International EPD® System. Version 3.0.
- PCR 2019:14. CONSTRUCTION PRODUCTS. Version 1.11
- ISO 14040:2006 Environmental management-Life Cycle Assessment - Principles and framework
- ISO 14044:2006 Environmental management-Life Cycle Assessment-Requirements and guidelines
- ISO 14025:2010 Environmental labels and declarations-Type III Environmental Declarations-Principles and procedures
- EN 15804:2012+A2:2019, Sustainability of construction works — Environmental product declarations
- Project report rev.1 – Factory finished panel and tongue&groove panel: calcium sulphate panel with galvanized steel dish

