Environmental
Product
Declaration

ISO14025+EN15804+A2 Bepalingsmethode
'Milieuprestatie Bouwwerken' versie 2.0-juli 2026

This declaration is for:
CEM III/B 42.5 N LH/SR CE PM CP1 NF

Provided by:
Ecocem Global



MRPI® registration:
00149.2026.1.0
Program operator:
Stichting MRPI
Publisher:
Stichting MRPI
www.mrpi.nl

Date of first issue:
05-11-2026
Date of this issue:
05-11-2026
Expiry date:
05-11-2031

ECO PLATFORM EPD VERIFIED

MRPI milieu relevante product informatie

COMPANY INFORMATION

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MRPI® REGISTRATION

00149.2026.1.0

DATE OF THIS ISSUE

05-11-2026

EXPIRY DATE

05-11-2031

SCOPE OF DECLARATION

This MRPI®-EPD certificate is verified by Roes, Lex,Ecochain Technologies B.V.. The LCA study has been done by Hermeling, Floris, EcoReview NL B.V.. The certificate is based on a LCA-dossier According to ISO14025+EN15804+A2 Bepalingsmethode ‘Milieuprestatie Bouwwerken’ versie 2.0-juli 2026. It is verified according to the. 'Verification protocol for MRPI LCA project report & EPD 16th of April 2026, V. 5.3'. EPDs of construction products may not be comparable if they do not comply with EN15804+A2.

PROGRAM OPERATOR

Stichting MRPI
Kingsfordweg 151
1043 GR
Amsterdam

PRODUCT

CEM III/B 42.5 N LH/SR CE PM CP1 NF

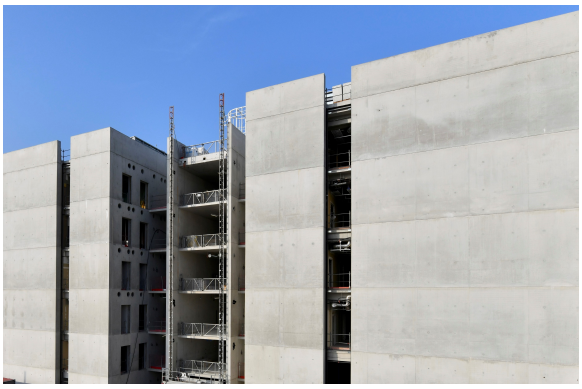
DECLARED AND FUNCTIONAL UNIT

Mass (1000 kg)

DESCRIPTION OF PRODUCT

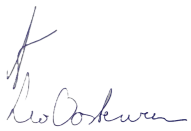
Ecocem CEM III/B is a cement mixture of traditional cement and Ground Granulated Blast Furnace Slag (GGBS). It is suitable for structural applications. Produced in Fos-sur-Mer, France

VISUAL PRODUCT



MORE INFORMATION

https://www.ecocemglobal.com

Ing. L. L. Oosterveen MSc. MBA **Managing Director MRPI**	Demonstration of verification
	CEN standard EN15804 serves as the core PCR [1]
	Independent verification of the declaration and data ISO14025+EN15804+A2 Bepalingsmethode ‘Milieuprestatie Bouwwerken’ versie 2.0-juli 2026 Internal: External: X
	Independent verifier: Roes, Lex, Ecochain Technologies B.V.. Cerified NMD verifier.
	
	[1] PCR = Product Category Rules

DETAILED PRODUCT DESCRIPTION

Ecocem CEM III/B is an NF EN 197-1 certified mixture of traditional cement and GGBS. Its high sulfate resistance (SR, PM) makes it well suited to sulfate-rich and marine environments and contributes to the durability of structures. With a strength class of 42.5 N, it is suitable for structural applications.

CEM III/B is used in the production of concrete, mortar, grout, coatings and other mixtures intended for construction, as well as in the manufacture of construction products.

Production site: Fos-sur-Mer, France

Component (> 1%)	(kg / %)
Ground Granulated Blast Furnace Slag	66% to 80%
Cement	20% to 34%
Other components	0% to 5%

Biogenic carbon content	Unit	Amount of uptake per functional unit
Biogenic carbon content in product	Kg C	0
Biogenic carbon content in accompanying packaging	Kg C	0
Note that 1 kg of biogenic carbon is equivalent to 44 / 12 kg of CO2.		

SCOPE AND TYPE

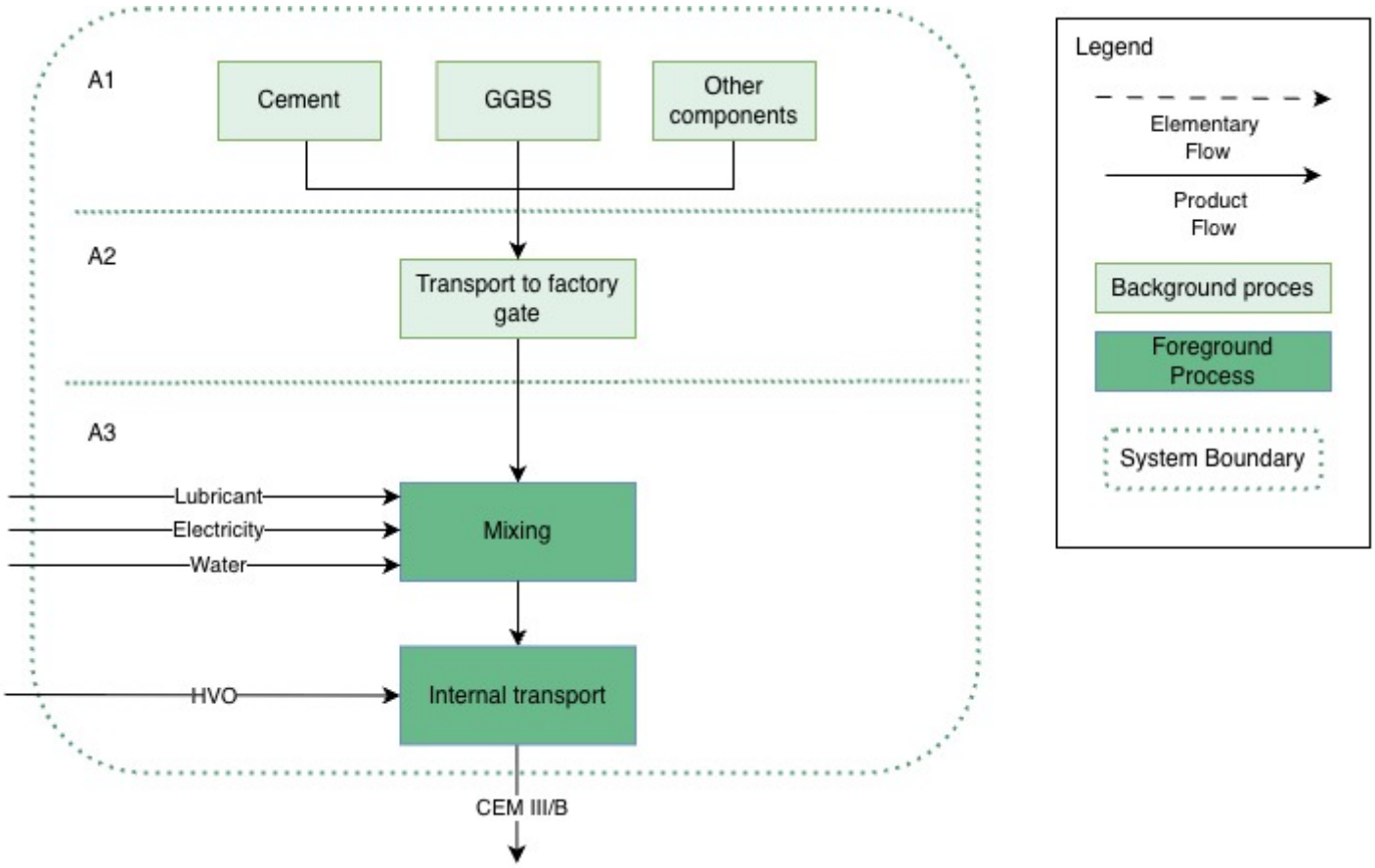
Background database: Ecoinvent 3.9.1
Method: Cut-off by classification
Software: Simapro 10.5
Characterization factor: Environmental Footprint (EF) 3.1

The type of this EPD is cradle-to-gate. All major steps from the extraction of natural resources to the factory gate are included in the product stage, in accordance with the cut-off criteria of EN 15804+A2.

No reference service life (RSL) is defined for the product, as it is an intermediate material and does not have a standalone function in a building. The service life is determined by the application and the performance of the final construction product in which it is used.

PRODUCT STAGE			CONSTRUCTION PROCESS STAGE		USE STAGE							END OF LIFE STAGE				BENEFITS AND LOADS BEYOND THE SYSTEM BOUNDARIES
Raw material supply	Transport	Manufacturing	Transport gate to site	Assembly	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	De-construction demolition	Transport	Waste processing	Disposal	Reuse - Recovery - Recycling potential
A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
x	x	x	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

X = Modules Assesed
ND = Not Declared



ENVIRONMENTAL IMPACT PER FUNCTIONAL UNIT OR DECLARED UNIT (CORE INDICATORS A2)

Unit		A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
GWP-total	kg CO2 eq	2.79E+02	3.16E00	2.42E-01	2.82E+02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GWP-fossil	kg CO2 eq	2.79E+02	3.15E00	2.29E-01	2.82E+02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GWP-biogenic	kg CO2 eq	2.47E-01	4.91E-03	3.15E-03	2.55E-01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GWP-luluc	kg CO2 eq	1.88E-02	1.12E-02	9.00E-03	3.90E-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ODP (A2)	kg CFC11 eq	1.19E-05	5.60E-08	9.28E-09	1.20E-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
AP mol H+	mol H+ eq	5.09E-01	1.51E-02	2.41E-03	5.26E-01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
EP-freshwater	kg P eq	6.62E-04	3.13E-05	6.83E-06	7.00E-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
EP-marine	kg N eq	1.95E-01	5.73E-03	9.43E-04	2.01E-01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
EP-terrestrial	mol N eq	1.74E+00	6.11E-02	9.67E-03	1.81E+00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
POCP kg NMVOC	kg NMVOC eq	5.70E-01	2.08E-02	2.95E-03	5.94E-01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ADP-minerals & metals	kg Sb eq	2.67E-05	9.85E-06	9.11E-07	3.75E-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ADP-fossil	MJ, net calorific value	2.10E+03	4.51E01	1.93E+01	2.17E+03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
WDP	m3 world eq. Deprived	3.35E+01	2.77E-01	7.58E-02	3.38E+01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

GWP-total = Global Warming Potential total
GWP-fossil = Global Warming Potential fossil fuels
GWP-biogenic = Global Warming Potential biogenictotal
GWP-LULUC = Global Warming Potential land use and land use change
ODP = Depletion potential of the stratospheric ozone layer
AP = Acidification Potential, Accumulated Exceedence
AP-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 Exceedence
POCP = Formation potential of tropospheric ozone photochemical oxidants
ADP-minerals & metals = Abiotic Depletion Potential for non-fossil resources [1]
ADP-fossil = Abiotic Depletion for fossil resources potential [1]
WDP = Water (user) deprivation potential, deprivation-weighted water consumption [1]

Disclaimer [1]:
- The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high or as there is limited experience withthe indicator.

ENVIRONMENTAL IMPACT PER FUNCTIONAL UNIT OR DECLARED UNIT (ADDITIONAL INDICATORS A2)

Unit		A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
PM	Disease incidence	4.07E-06	3.11E-07	1.36E-08	4.39E-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
IRP	kBq U235 eq	1.55E+01	1.76E-02	1.70E-01	1.57E+01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ETP-fw	CTUe	4.03E+02	3.33E01	3.41E+00	4.40E+02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HTP-c	CTUh	9.51E-08	1.67E-09	1.10E-09	9.79E-08	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HTP-nc	CTUh	8.91E-07	3.62E-08	3.39E-09	9.30E-07	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SQP	-	1.20E+02	3.56E01	1.67E+00	1.57E+02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

PM = Potential incidence of disease due to particulate matter emissions
IRP = Potential Human exposure efficiency relative to U235 [1]
ETP-fw = Potential Comparative Toxic Unit for ecosystems [2]
HTP-c = Potential Comparative Toxic Unit for humans, cancer [2]
HTP-nc = Potential Comparative Toxic Unit for humans, non-cancer [2]
SQP = Potential soil quality index [2]

Disclaimer [1]:
- 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.

Disclaimer [2]:
- The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high or as there is limited experience with the indicator.

OUTPUT FLOWS AND WASTE CATEGORIES PER FUNCTIONAL OR DECLARED UNIT (A1 AND A2)

Unit		A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
HWD	kg	2.52E-01	2.87E-04	1.80E-05	2.52E-01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
NHWD	kg	5.09E+00	2.98E00	4.71E-02	8.11E+00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
RWD	kg	3.81E-02	1.03E-05	2.23E-04	3.83E-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CRU	kg	0.00E+00	0.00E00	0.00E+00	0.00E+00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MFR	kg	0.00E+00	0.00E00	0.00E+00	0.00E+00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MER	kg	0.00E+00	0.00E00	0.00E+00	0.00E+00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
EEE	MJ	0.00E+00	0.00E00	0.00E+00	0.00E+00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ETE	MJ	0.00E+00	0.00E00	0.00E+00	0.00E+00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

HWD = Hazardous Waste Disposed
NHWD = Non Hazardous Waste Disposed
RWD = Radioactive Waste Disposed
CRU = Components for reuse
MFR = Materials for recycling
MER = Materials for energy recovery
EEE = Exported Electrical Energy
ETE = Exported Thermal Energy

RESOURCE USE PER FUNCTIONAL OR DECLARED UNIT (A1 AND A2)

Unit		A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
PERE	MJ	8.95E+01	6.37E-01	6.20E-01	9.08E+01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PERM	MJ	0.00E+00	0.00E00	0.00E+00	0.00E+00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PERT	MJ	8.95E+01	6.37E-01	6.20E-01	9.08E+01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PENRE	MJ	2.06E+03	4.51E01	1.94E+01	2.12E+03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PENRM	MJ	0.00E+00	0.00E00	0.00E+00	0.00E+00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PENRT	MJ	2.06E+03	4.51E01	1.94E+01	2.12E+03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SM	kg	0.00E+00	0.00E00	0.00E+00	0.00E+00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
RSF	MJ	0.00E+00	0.00E00	0.00E+00	0.00E+00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
NRSF	MJ	0.00E+00	0.00E00	0.00E+00	0.00E+00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
FW	m3	1.17E+00	1.16E-02	5.86E-03	1.19E+00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

PERE = Use of renewable primary energy excluding renewable primary energy 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 resources excluding non-renewable energy resources used as raw materials
PENRM = Use of non-renewable primary energy resources used as raw materials
PENRT = Total use of non-renewable primary energy resources
SM = Use of secondary materials
RSF = Use of renewable secondary fuels
NRSF = Use of non-renewable secondary fuels
FW = Use of net fresh water

CALCULATION RULES

Data collection period
The dataset is representative for the production processes used in 2025. Data covers the entirety of 2025 (12 months). The EPD used for GGBS was issued in December 2023.

Methodology and reproducibility
The process descriptions and quantities in this study are reproducible in accordance to the reference standards that have been used. The references of all sources, both primary and public sources and literature, have been documented. In addition, to facilitate the reproducibility of this LCA, a full set of data records has been generated.

Cut off
In this study, all inputs and outputs - such as emissions, energy and material inputs - are included in the calculation according to the Determination Method. The contribution to each impact category by the capital goods is calculated to be no more than 5%

Allocation
The allocation of emissions from steel production to the purchased GGBS is in accordance with the French standard NF EN 15804+A2/CN and the economic allocation recommended by the French government (DHUP – Department of Housing, Urban Planning and Landscape).

DATA QUALITY

Data flows have been modelled as realistically as possible. The LCA was performed in accordance with ISO 14040:2006 and ISO 14044:2006. Data quality was assessed according to the system defined in EN 15804+A2 - Table E.1.

The overall verdict of the data quality assessment is:

Geographical representativeness = Good.
In the worst case, data was average data from a larger area in which the area under study is included ("Good"). In all other cases, data has been classified as "Very good".

Technological representativeness = Good to Very good.
Each dataset that represents the processes and products exactly as described in its title and metadata has been classified as "Very good". In all other cases, data has been classified as "Good", as it could not be fully verified that the technology used was identical.

Time representativeness = Good.
No dataset is more than 3 years older than the reference year of the study (2025), as expressed in the ILCD field.

POWER MIX

For electricity modelling, a market-based approach has been used (ECO Platform - Table 2 - Case - 3A)

For the electricity mix, a high voltage residual mix dataset has been selected based on the country of origin (production facility):
Electricity, high voltage {FR}| electricity, high voltage, residual mix | Cut-off, U - 0,0093 kg CO2-eq./kWh

SCENARIOS AND ADDITIONAL TECHNICAL INFORMATION

A1. Raw materials supply
All materials needed for production are taken into account. The product is supplied in bulk, without packaging.

A2. Transport of raw materials to manufacturer
The transport from the suppliers to Ecocem France is done by truck.

A3. Manufacturing
The production process consists of blending the materials and storing the product in silos. Electricity use (see power mix) and HVO use for internal transport are taken into account

DECLARATION OF SVHC

The product does not contain substances listed in the "Candidate List of substances of very high concern for Authorisation" in concentrations exceeding the threshold defined in the REACH Regulation.

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