

Environmental product declaration

in accordance with ISO 14025 and EN 15804+A2

CEM II/A-LL 42.5 Byggcement Skövde





Owner of the declaration Heidelberg Materials Cement Sverige AB

Product CEM II/A-LL 42.5 Byggcement Skövde

Declared unit 1 tonne

This declaration is based on Product Category Rules EN 15804:2012+A2:2019 serves as core PCR EN 16908:2017 Cement and building lime **Program operator** The Norwegian EPD Foundation

Declaration number NEPD-11496-11390

Registration number NEPD-11496-11390

Issue date 23.06.2025

Valid to 23.06.2030

EPD software: LCA.no EPD generator ID: 1062109

The Norwegian EPD Foundation



General information

Product CEM II/A-LL 42.5 Byggcement Skövde

Program operator

The Norwegian EPD Foundation Post Box 5250 Majorstuen, 0303 Oslo, Norway Phone: +47 977 22 020 web: www.epd-norge.no

Declaration number

NEPD-11496-11390

This declaration is based on Product Category Rules

EN 15804:2012+A2:2019 serves as core PCR EN 16908:2017 Cement and building lime

Statement of liability

The owner of the declaration shall be liable for the underlying information and evidence. EPD Norway shall not be liable with respect to manufacturer information, life cycle assessment data and evidences.

Declared unit

1 tonne CEM II/A-LL 42.5 Byggcement Skövde

Declared unit with option

A1-A3, A4

Functional unit

1 tonne CEM II/A-LL Byggcement Skövde

General information on verification of EPD from EPD tools

Independent verification of data, other environmental information and the declaration according to ISO 14025:2010, § 8.1.3 and § 8.1.4. Verification of each EPD is made according to EPD-Norway's guidelines for verification and approval requiring that tools are i) integrated into the company's environmental management system, ii) the procedures for use of the EPD tool are approved by EPD-Norway, and iii) the process is reviewed annually by an independent third party verifier. See Appendix G of EPD-Norway's General Programme Instructions for further information on EPD tools

Verification of EPD tool

Independent third party verification of the EPD tool, background data and test-EPD in accordance with EPDNorway's procedures and guidelines for verification and approval of EPD tools.

Third party verifier

Ellen Soldal, Norsus AS

(no signature required)

Owner of the declaration

Heidelberg Materials Cement Sverige AB Contact person: Åsa Nilsson e-mail: asa.nilsson@heidelbergmaterials.com

Manufacturer

Heidelberg Materials Cement Sverige AB Marieviksgatan 25, Box 47210 SE-100 74 Stockholm, Sweden Contact person: Åsa Nilsson e-mail: asa.nilsson@heidelbergmaterials.com Phone: +46 (0)708-36 15 58

Place of production

Skövde Plant Cementvägen 1 54131 Skövde, Sweden

Management system

ISO 9001:2015 and ISO 14001:2015

Organisation no

556013-5864

Issue date

23.06.2025

Valid to 23.06.2030

Year of study

2025

Comparability

EPDs of construction products may not be comparable if they do not comply with EN 15804 and are seen in a building context.

Development and verification of EPD

The declaration is created using EPD tool lca.tools ver EPD2022.03, developed by LCA.no. The EPD tool is integrated in the company's management system, and has been approved by EPD Norway.

Developer of EPD Åsa Nilsson

Reviewer of company-specific input data and EPD Yahya Ghasemi

Approved

Håkon Hauan, CEO EPD-Norge



Product

Product description

Byggcement is a Limestone-Portland cement for general purpose. The application of cement has a large variety. It is mainly used as a binder for concrete and mortar. The application in concrete is regulated in /EN 206/.

According to this standard, general suitability is established for cement conforming to /EN 197-1/

Product specification

CEM II/A-LL

Materials	Value	Unit
Clinker	80-94	%
Limestone	6-20	%
Gypsum	0-5	%
Other	0-5	%

Technical data

More information at https://www.cement.heidelbergmaterials.se/sv/byggcement

Market

Sweden (Europe)

Reference service life, product

No reference service life is declared as cement is an intermediate building product. A reference service life could be declared for downstream products such as ready-mix concrete, precast concrete, screed, plasters, masonry mortars or other building poducts in which cement is used

Reference service life, building or construction works

For cement the reference service life of the building is not relevant

LCA, Calculation rules

Declared unit

1 tonne CEM II/A-LL 42.5 Byggcement Skövde

Cut-off criteria

All major raw materials and all the essential energy are included. The production processes for raw materials and energy flows with very small amounts (less than 1%) may not be included. These cut-off criteria do not apply for hazardous materials and substances.

Allocation

Allocation is carried out in accordance with the provisions of EN 15804. Incoming energy, water consumption, and in-house waste generation are distributed equally among all products using mass allocation. The standard's guidelines are also applied to co-products. If the allocation factor is 1% or less, economic allocation is deemed negligible and therefore omitted. Additionally, where relevant, the processing and transportation of co-products are included in the analysis.

Data quality

Specific data for the product composition are provided by the manufacturer. The data represent the production of the declared product and were collected for EPD development in the year of study. Background data is based on EPDs according to EN 15804 and different LCA databases. The data quality of the raw materials in A1 is presented in the table below.

Materials	Source	Data quality	Year
Additives	ecoinvent 3.10	Database	2023
Aggregate	ecoinvent 3.10	Database	2023
Aggregate	Modified ecoinvent 3.10	Database	2023
Chemical	ecoinvent 3.10	Database	2023
Emissions and waste streams	LCA.no	Database	2024
Materials	LCA.no	Database	2024
SCM	LCA.no	Database	2024



System boundaries (X=included, MND=module not declared, MNR=module not relevant)

Pro	oduct sto	ıge	Constr instal sto	uction lation Ige			ι	Jse stage	2			End of life stage			Beyond the system boundaries	
Raw materials	Transport	Manufacturing	Transport	Assembly	Use	Maintenance	Repair	Replacement	Refurbishment	Oper ational energy use	Operational water use	De- construction demolition	Transport	W aste processing	Disposal	Reuse-Recovery- Recycling-potential
A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Х	Х	Х	Х	MNR	MNR	MNR	MNR	MNR	MNR	MNR	MNR	MNR	MNR	MNR	MNR	MNR

System boundary

From raw material extraction to market.

The study is made from data for January-April 2025. The planned production is the same for the rest of 2025.

Type of the EPD: cradle to gate (A1 – A3) with option A4. The applied system boundaries cover the production of cement including carbon capture and storage up to the finished product at the factory gate. The product stage includes: - Module A1: Extraction and processing of raw materials - Module A2: Transport of raw materials to the factory gate - Module A3: Clinker and cement production The construction process stage includes: - Module A4: Transport



Additional technical information



LCA, Scenarios and additional technical information

The following information describe the scenarios in the different modules of the EPD.

The Terminal used for Skövde Industricement is at the plant gate. The transportation stage, A4, will then be 0 kg CO2-eq.



LCA, Results

The LCA results are presented below for the declared unit defined on page 2 of the EPD document.

Environmenta	l impact			
	Indicator	Unit	A1-A3	A4
P	GWP-total	kg CO ₂ -eq	5,69E+02	0
P	GWP-fossil	kg CO ₂ -eq	5,69E+02	0
P	GWP-biogenic	kg CO ₂ -eq	4,35E-01	0
æ	GWP-luluc	kg CO ₂ -eq	5,04E-02	0
Ó	ODP	kg CFC11 -eq	1,97E-06	0
Ē	AP	mol H+ -eq	6,92E-01	0
	EP-FreshWater	kg P -eq	1,12E-02	0
	EP-Marine	kg N -eq	1,92E-01	0
	EP-Terrestial	mol N -eq	2,92E+00	0
	РОСР	kg NMVOC -eq	6,62E-01	0
	ADP-minerals&metals ¹	kg Sb-eq	2,51E-03	0
F	ADP-fossil ¹	MJ	3,82E+03	0
<u>%</u>	WDP ¹	m ³	2,04E+01	0

GWP-total = Global Warming Potential total; 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

"Reading example: 9,0 E-03 = 9,0*10-3 = 0,009"

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 experienced with the indicator.

Remarks to environmental impacts

The core GWP indicators declared do not include the emissions from the combustion of waste fuels (GWP, net). The waste status of the waste-based fuels has been proven. The GWP indicators including the emissions from the combustion of waste fuels (GWP, gross) are reported separately in this EPD under "Additional Environmental Information".



Additional environmental impact indicators					
Indicator		Unit		A4	
	РМ	Disease incidence	4,43E-06	0	
100 g	IRP ²	kgBq U235 -eq	8,56E+01	0	
(D)	ETP-fw ¹	CTUe	2,65E+02	0	
44 * ****	HTP-c ¹	CTUh	1,58E-07	0	
4 <u>8</u>	HTP-nc ¹	CTUh	1,15E-06	0	
	SQP ¹	dimensionless	6,34E+02	0	

PM = Particulate Matter emissions; IRP = Ionizing radiation – human health; ETP-fw = Eco toxicity – freshwater; HTP-c = Human toxicity – cancer effects; HTP-nc = Human toxicity – non cancer effects; SQP = Potential Soil Quality Index (dimensionless)

"Reading example: 9,0 E-03 = 9,0*10-3 = 0,009"

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 experienced with the indicator.

2. 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.



Resource use						
	Indicator	Unit	A1-A3	A4		
i ti	PERE	MJ	1,95E+02	0		
	PERM	MJ	0,00E+00	0		
	PERT	MJ	1,95E+02	0		
	PENRE	MJ	2,60E+03	0		
	PENRM	MJ	8,89E-03	0		
IA	PENRT	MJ	2,60E+03	0		
	SM	kg	1,80E+01	0		
	RSF	MJ	4,48E+02	0		
Ĩ.	NRSF	MJ	1,97E+03	0		
\$	FW	m ³	5,66E-01	0		

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; 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; PENRT = Total 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 = Net use of fresh water

"Reading example: 9,0 E-03 = 9,0*10-3 = 0,009"



End of life - Waste					
	Indicator	Unit	A1-A3	A4	
	HWD	kg	7,10E+00	0	
Ū	NHWD	kg	8,48E+01	0	
æ	RWD	kg	1,83E-02	0	

HWD = Hazardous waste disposed; NHWD = Non-hazardous waste disposed; RWD = Radioactive waste disposed

"Reading example: 9,0 E-03 = 9,0*10-3 = 0,009"

End of life - Output flow					
Indicato	pr	Unit	A1-A3	A4	
\otimes	CRU	kg	0,00E+00	0	
\$\$	MFR	kg	7,73E-01	0	
DF	MER	kg	1,29E-01	0	
5D	EEE	MJ	7,69E-04	0	
D	EET	MJ	7,27E-04	0	

CRU = Components for re-use; MFR = Materials for recycling; MER = Materials for energy recovery; EEE = Exported energy electrical; EET = Exported energy thermal

"Reading example: 9,0 E-03 = 9,0*10-3 = 0,009"

Biogenic Carbon Content					
Indicator	Unit	At the factory gate			
Biogenic carbon content in product	kg C	1,02E-03			
Biogenic carbon content in accompanying packaging	kg C	0,00E+00			

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



Additional requirements

Greenhouse gas emissions from the use of electricity in the manufacturing phase

Electricity consumption during the manufacturing phase is modelled considering the below specified parameters.

Source	Amount	Unit
ecoinvent 3.10	65,67	g CO2-eq/kWh
	Source ecoinvent 3.10	SourceAmountecoinvent 3.1065,67

Dangerous substances

The product contains no substances given by the REACH Candidate list.

Indoor environment

Not relevant

Additional Environmental Information

Additional environmental impact indicators required in NPCR Part A for construction products				
Indicator	Unit	A1-A3	A4	
GWPIOBC	kg CO ₂ -eq	5,69E+02	0	

GWP-IOBC: Global warming potential calculated according to the principle of instantaneous oxidation. In order to increase the transparency of biogenic carbon contribution to climate impact, the indicator GWP-IOBC is required as it declares climate impacts calculated according to the principle of instantaneous oxidation. GWP-IOBC is also referred to as GWP-GHG in context to Swedish public procurement legislation.

Additional GWP indicators in accordance with cPCR and more transparent reporting related to CCS				
Indicator	Unit	A1-A3		
GWP-total, gross	kg CO2 -eq	7,27E+02		
GWP-fossil, gross	kg CO2 -eq	7,26E+02		
GWP-biogenic, gross	kg CO2 -eq	4,35E-01		
GWP-luluc, gross	kg CO2 -eq	5,04E-02		
GWP-total, net	kg CO2 -eq	5,69E+02		
GWP-fossil, net	kg CO2 -eq	5,69E+02		
GWP-biogenic, net	kg CO2 -eq	4,35E-01		
GWP-luluc, net	kg CO2 -eq	5,04E-02		
CWRS	kg CO2 -eq	0,00E+00		
CWNRS	kg CO2 -eq	1,58E+02		
сс	kg CO2 -eq	4,20E+02		
CCS	kg CO2	0,00E+00		

GWP-total, gross = Global Warming Potential total, gross (GWP-fossil, gross + GWP-biogenic, gross + GWP-luluc); GWP-fossil, gross = Global Warming Potential fossil fuels, gross ; GWP-biogenic, gross = Global Warming Potential biogenic, gross ; GWP-luluc = Global Warming Potential land use and land use change; GWP-total, net = Global Warming Potential total, net (GWP-total, gross minus CWRS and CWNRS); CWRS = Emissions from combustion of waste from renewable sources (GWP from secondary fuels' combustion considering CH4 bio emissions); CWNRS = Emissions from combustion of waste from non-renewable sources (GWP from secondary fuels' combustion CO2 fossil, CO fossi, N2O and CH4 bio fossil); GWP-fossil, net = Global Warming Potential fossil fuels, net (GWP-fossil, gross minus CWNRS); GWP-biogenic, net = Global Warming Potential, CC = Emissions from decarbonization of limestone in clinkering (process emissions, clinker), CCS = Carbon capture and storage



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