



**VERIFICATION REPORT FOR LCA TOOL OF CONSTRUCTION PRODUCTS IN  
THE INTERNATIONAL EPD® SYSTEM**

TOOL VERIFICATION REPORT

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## Introduction

This document serves as verification report for pre-verified LCA or EPD Tools of construction products in the International EPD® System, as defined in section 8.6 of the General Programme Instructions (GPI) version 5.0.0.

A signed copy of a verification report shall be submitted to the Secretariat as a part of the pre-verification of the LCA/EPD Tool for its registration and publication.

This report is based on the templates provided for EPD verification available at [www.environdec.com](http://www.environdec.com).

### LCA/EPD Tool general information

Ownership of the tool (legal entity)	Global Cement and Concrete Association (GCCA)
Tool name:	Industry EPD tool for Clinker, Cement, Aggregates, Concrete and Precast products
Version:	5.2
Scope of the Tool	The tool provides calculation of EPD indicators based on the construction products PCR of the International EPD System for cement, concrete, aggregates and precast elements
Tool type	LCA Tool
Product Category Rules (PCR): <i>Registration number, name and version</i>	Construction products and construction services – 2019:14 Version 2.0.0 – 2025  PCR 2019:14-c-PCR-003 c-PCR-003 Concrete and concrete elements (EN 16757) (2019-12-20)  PCR 2019:14-c-PCR-001 c-PCR-001 Cement and building lime (EN 16908) (2022-05-18)
Tool valid until:	07/04/2030. Tool validity is subjected to the fulfilment of the requirements set out in section 8.6.3 of GPI v5
The tool generates an LCA report	No
The tool generates draft EPDs	No
Other relevant information	The full list of comments raised during the verification and answers from the tool developed and owner are available in the verification dialogue. The verification dialogue also include recommendations for future developments of the tool.

## Scope of the pre-verification

GCCA's Industry EPD Tool for Cement and Concrete (thereafter referred to as “the tool”) is a web-based calculation tool for EPDs of clinker, cement, aggregates, concrete and precast elements, available in both International and North American versions. The present report refers to the International version only.

The tool produces two major outputs:

- A self-declaration in GCCA format that can be used for communication and/or sales purposes. The self-declaration is not a validated official EPD but can serve as a user-friendly document that contains the main general/background information and the environmental performance (LCA results) of the specific product for all indicators.
- A background report with the complete set of input data and results of the specific product. This document is in the form of an Excel file that contains all the information required to produce an EPD and also for a verifier to validate it.

The scope of the pre-verification covers:

- All secondary data regarding raw materials, transport, energy wares, waste treatment
- Calculation parameters: allocation factors applied to secondary data, default inventory data used in the tool (e.g. in EoL scenarios)
- Calculated data: calculation of the environmental profile combining the LCIA scores in the database with the activity data (BoM, plant data and transport)
- Implementation of the impact assessment methods, as required by the applicable PCRs and the guidance provided by EPD International
- Reporting of the environmental profile in EPD format.

The pre-verified elements are locked and protected, and they are not available to the tool users for ensuring the tool integrity.

## Verification statement

The verification team hereby confirms that, following the checks performed, in accordance with the limits of the scope of our appointment, nothing has come to the verifier's attention to suggest any data errors or deviations from the requirements by the above-referenced LCA Tool and its project report, in terms of

- the underlying data collected and used for the LCA calculations,
- the way the LCA-based calculations has been carried out to comply with the calculation rules,
- the presentation of environmental performance to be included in the EPDs generated with the tool, and
- any other information included in the tool

with respect to the procedural and methodological requirements in ISO 14020:2000, ISO 14025:2006, the General Programme Instructions of the International EPD® System and the reference PCR.

The verification team confirms that, in accordance with the limits of the scope of our appointment, the company-specific data has been examined as regards plausibility and consistency.

The tool owner is responsible for its factual integrity and correct use.

The verification team confirms that it has sufficient knowledge and experience of the product category, the industry, relevant standards and the geographical area of the EPD to carry out this verification.

The verification team confirms that it has been independent in its role as verifier in accordance with the requirements in General Programme Instructions, i.e. it has not been involved in the execution of the LCA or in the development of the tool, and have no conflicts of interest regarding this verification.

Name and organization of verifier:	Elia Rillo  Studio Fieschi & soci Srl Società con Socio Unico Società soggetta a direzione e coordinamento di Tinexta S.p.A.  C.so Vittorio Emanuele II, 18 10123 Torino (TO) – Italia Tel.: +39 011 6599677  Dorsoduro 3441 30123 Venezia (VE) – Italia Tel.: +39 041 8627563 <a href="http://www.studiofieschi.it">www.studiofieschi.it</a>
Date and location:	Torino, 24/06/2025
Signature:	

## Additional notes by the verifier

The Tool is designed to help users prepare EPDs for its products. A dashboard for primary data input is designed in order to guide the user throughout the data collection process to allow for easy environmental profile preparation and to calculate the results for all impact categories described in the PCR.

All relevant comments collected during the verification have been addressed and are documented in a dedicated Verification Dialogue.

Test runs in the Tool was performed to verify the coherence of the results and between the data reported in the documentation and the calculations performed by the Tool.

### RECOMMENDATIONS FOR THE TOOL USER

The tool allows the generation of results to be used for the creation of the final EPD.

The user is responsible for:

- Reading and understanding all tool supporting documents in order to use the tool correctly
- Input and quality of data
- Using correctly the tool output results to develop an EPD

The final EPD verifier will need to have access to all input data and to check their consistency, as well as the correct transfer of the tool output results into the final EPD.

Tool users shall organize the data needed for the verification of the EPD(s) in a background LCA study report in line with the GPI requirements for the presentation of data for verification.

### RECOMMENDATIONS FOR EPD VERIFICATION

The EPD verifier shall ensure that data imported in the tool are in line with the reference PCR.

The data covered by the scope of the pre-verification does not need further verification during the verification stage of the EPD.

The EPD verifier shall also check that tool maintenance and updates have been performed and verified.

## Verification checklist

The following tables include the relevant requirements in the standards, General Programme Instructions and reference PCR(s).

### Requirements for the verification of pre-verified tools

TOOL AND PROJECT REPORT	CHECKED AND APPROVED	N/A	COMMENTS
Ownership of the tool	X		-
Identification of the tool including version number	X		-
Scope of the tool	X		-
Applicable PCR(s) including PECR version	X		-
Description of the LCA model of the tool	X		-
Assumptions on which the model is based, including system boundary, cut offs, allocation method and other calculation rules	X		The Tool follows the methodological requirements set out in the reference PCRs.
Scope of pre-verification (see Section 8.6.1 of GPI v5)	X		-
identification of the variable parameters with significant impact on the environmental performance results,	X		-
description of the data quality, data sources and references	X		Suggestion: consider implementing a quantitative feature for assessing the share of impacts calculated from proxy data.
conditions under which the tool is to be used, including data and software security and usability	X		-
information included in the LCA report, if applicable		X	-
LCA results or an EPD	X		Sample check were performed on the results of the default clinker, cement and concrete available in the tool.
internal management procedure for tool deviations (see Section 8.6.5 of GPI v5),	X		-
definition of roles and processes	X		-
training and guidance for users	X		Instructions provided in the online tool and in an extensive user guide
procedures for maintenance and update of the tool	X		-
Tool logbook	X		-
Other relevant information		X	





LCA REPORT (IF APPLICABLE)	CHECKED AND APPROVED	N/A	COMMENTS
relevant information for EPD verification in accordance to Section 8.3.1 of GPI v5		X	-
a reference to the tool version and the tool project report		X	-
a description and explanation of the variable input data and the main drivers for the indicator results		X	-
a description of the data quality of the variable input data		X	-
Other relevant information		X	-

## Requirements on the EPD (if applicable)

Not applicable to this verification, as this is an LCA Tool and it does not generate EPDs.

## Annexes

- Verification Dialogue: *epd-verification-dialogue-GCCA-2025-23-06*
- Simplified EPD verification report: *EPD Verification Report\_GCCA\_V5.2*