



VERIFICATION OPINION

IDENTIFICATION DATA OF THE CLIENT

Client:	FERRACIN GROUP SRL
Registered office:	Via Statale, 10/S - 25011 Calcinato (BS) - Italy
Operational unit(s):	Via Statale, 10/S - 25011 Calcinato (BS) - Italy
Contact person:	Umberto Ferracin
Contract number (Flex):	Contract #: 1-17805557-39 - FLEX #: 25750184

AUDITING TEAM OF BUREAU VERITAS ITALIA S.P.A.

Team Leader:	Federica Gilardelli
Team member:	Camilla Facheris
Team member:	---
Technical expert:	---

PERFORMANCE OF ACTIVITIES

Date of execution of the strategic analysis:	11/04/2025
Date of execution of the verification/validation:	15/04/2025 (Main Audit) - 06/05/2025 (Main Audit) - 09/05/2025 (Final Report)

PEOPLE INVOLVED IN THE AUDIT

Name and surname:	Umberto Ferracin
Role:	Ferracin Group - Sole Director
Name and surname:	Francesca Ferracin
Role:	Ferracin Group - Sales and Logistics Manager
Name and surname:	Maria Contrini
Role:	Consultant
Name and surname:	Giona Lucchini
Role:	Consultant
Name and surname:	Federica Di Carlo
Role:	Consultant

Verification activities by Bureau Veritas Italia S.p.A. refers to the following elements:

EPD Single Product / EPD Process: <i>Indicate whether it is an EPD Single Product or EPD Process verification.</i>	EPD Single Product: EPD multiple products based on the worst case
Product/service <i>Indicate the product/service covered by the EPD or the EPD test in case of EPD Process. In case of monitoring EPD Process indicate the EPD sampled.</i>	PP/PE building formwork by injection molding belonging to family 1: - TOP4S; - Vespaio Svelto; - Tubes; - Maxi Tubes; - Magnum. PP/PE building formwork by injection molding belonging to family 2: - Toti; - Easy-light.
Indicate whether the products under study are already available on the market, or whether they are products at the design/prototyping stage	Already available on the market.
In the case of EPD Process indicate all products/services falling within the scope of the scheme <i>Indicate CPC codes</i>	Not applicable (EPD Single Product).
Production sites included in the study <i>Indicate all production plants included in the study in the case of both EPD Single Product and EPD Process</i>	Via Statale, 10/S - 25011 Calcinato (BS) - Italy
Reference year / period	From 01 July 2023 to 30 June 2024
General Programme Instruction <i>Select from the drop-down menu</i>	GPI 4.0

If "Other", please specify	---
Reference Product Category Rules (PCR) [Registration number, name and version]:	PCR 2019:14 Construction Product (v.1.3.4)
Indicate whether the LCA study considers all phases of the life cycle, or if any are excluded	Cradle-to-gate (A1-A3) with modules B1-B7, C1-C4, and D. Excluded modules: A4-A5
Indicate functional unit or declared unit	Declared unit: Formwork of different geometries made of plastic material used to create ventilation systems within various types of construction. Mass: 1 kg.
System boundaries - Upstream processes <i>Indicate the upstream phases to be analysed and the subject of the study, taking into account the reference PCR</i>	A1: production of raw materials and primary packaging used to transport the finished product
System boundaries - Core processes <i>Indicate the core phases to be analysed and the subject of the study, taking into account the reference PCR</i>	A2: transportation of raw materials for finished product production and primary packaging for finished product shipment A3: energy consumption A3: wastes A3: Plastic and wood packaging waste used in the transportation of raw materials and packaging
System boundaries - Downstream processes	C1: deconstruction demolition C2: transport of demolition waste C3: waste treatment for reuse, recovery and/or recycling C4: disposal D: benefits and loads beyond system boundaries
Cut-off criteria	Cut-off criteria: - according to EN 15804:2012 + A2:2019 Exclusions: - capital goods: negligible
Data quality <i>Indicate the use of primary, secondary, site-specific data.</i>	Performed according to: - Completeness (C) - Temporal Representativeness (RTem) - Technological Representativeness (RTec) - Geographical Representativeness (RG) Each criterion is assigned a value from 1 to 5, where 1 represents the highest quality level. The overall inventory quality was rated as Good
Uncertainty analysis	Performed a qualitative uncertainty assessment.
Sensitivity analysis	Carried out assuming a scenarios that the raw plastic material used in the manufacturing process is exclusively EoW.
Other significant elements, if any	Allocation by mass.
TOOLS USED TO SUPPORT MONITORING AND CALCULATION <i>(excel sheets, approved databases, Simapro, etc.)</i>	Software: OpenLCA version 2.4.1 Database: Ecoinvent 3.11 Method: EN15804+A2 + EF v3.1

The documents subject to verification were the following:

Name of the sampled document	Version
Technical report: LCA study of products and components in second-life plastic disposable formwork use in the constitution	Rev. 0 [file name: LCA_FERRACIN_TAGLIATO] Rev. 04 14/04/2025
EPD-IES-0022693-001 Environmental Product Declaration Products and components in second-life plastic disposable formwork use in the constitution – for the construction of ventilated crawl spaces, aerated floors, accumulation or dispersion tanks in all types of civil and industrial buildings	Rev. 0 [file name: EPD_FERRACIN_GRPUP_1] Rev. 1 [file name: EPD_FERRACIN_GRPUP_1]
EPD-IES-0020060-001 Environmental Product Declaration Products and components in second-life plastic disposable formwork use in the constitution – for the creation of lightweight structures	Rev. 0 [file name: Copia di EPD_FERRACIN_GROUP2] Rev. 1 [file name: EPD_FERRACIN_GROUP2]

VERIFICATION OPINION

Verification Opinion	Modified opinion
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Unmodified opinion

The evidence supporting the GHG statement is sufficient and appropriate; Applicable criteria are met and properly applied.

Modified opinion

Errors were found, however not relevant. Such errors are:

- limited to specific elements of the GHG declaration;
- not representative of a substantial part of the GHG declaration;
- not essential for the intended user to understand the GHG declaration.

Adverse opinion

The evidence supporting the GHG statement is NOT sufficient and appropriate; Applicable criteria are NOT met and properly applied. The control activities were not effective.

Latest revision/version of LCA Study verified:

Name of the document	Version
Technical report: LCA study of products and components in second-life plastic disposable formwork use in the constitution	Rev. 04 - 14/04/2025

Registration number of EPD(s):	EPD-IES-0022693 Environmental Product Declaration Products and components in second-life plastic disposable formwork use in the constitution – for the construction of ventilated crawl spaces, aerated floors, accumulation or dispersion tanks in all types of civil and industrial buildings EPD-IES-0020060 Environmental Product Declaration Products and components in second-life plastic disposable formwork use in the constitution – for the creation of lightweight structures
EPD valid until: Set by the verifier. Use date format YYYY-MM-DD, e.g. 2024-02-15.	2030-06-20 2030-06-20

Any additional notes

Nothing relevant to report.

RESULTS

Opportunities for Improvement	Notes
For future update of the EPDs, it's suggested to perform a quantitative uncertainty analysis (e.g. Monte Carlo analysis).	---
In order to better modeling the A2 Phase, even if it's not material, it's suggested to consider the distances from the Suppliers according to the specific supplied raw material (i.e. without considering different plastics such as PE, PP, HDPE, etc. as a general "plastic").	---
For future update of the EPDs, it's suggested to select a solar year as reference time in order to avoid the risk of error in considering included processes (considered period for these EPDs: from 01/07/2023 to 30/06/2024).	---
For EPDs maintenance, it's suggested to improve written procedures identifying responsibilities, activities and timing related to data collection, data elaborations and LCA modelling.	---

The verification was carried out in accordance with ISO 14064-3, ISO 14065, ISO 17029 and the ACCREDIA Regulations for the accreditation of EPD audits.

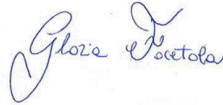
This verification opinion is addressed to the responsible party, as identified above.

This verification opinion is also made available to anyone, single individual or organization, who wishes to know in detail how the verification was carried out by Bureau Veritas Italia S.p.A.

Verification Opinion N° IT345408-1

Date: 20 June 2025

Gloria Focetola – Local Technical Manager





VV N°0009